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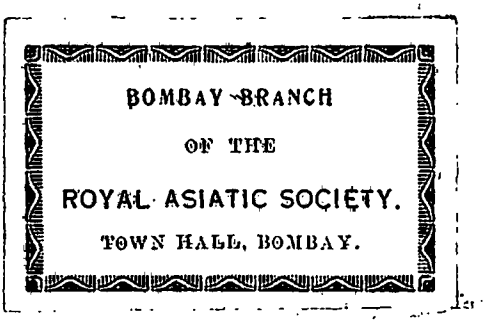


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# CATALOGUE

OF THE

# TORTOISES, CROCODILES,

AND

# AMPHISBÆNIANS,

33133

IN

THE COLLECTION

OF THE

# BRITISH MUSEUM.

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# INTRODUCTION.

THE chief object of preparing the present Catalogue, has been to give at one view a complete Synopsis of all the specimens of Shielded Reptiles at present in the British Museum collection, and an account of the species known to exist in other collections, but which are at present desiderata to the British Museum, so as to enable travellers, collectors, and others, to assist in completing the national collection.

For this purpose a synoptic description has been given of all the genera and species of the shielded reptiles at present known to exist in the different museums and private collections, and at the end of each description is added an enumeration, stating the state, age, country, and other peculiarities of each specimen of the kind in the Museum collection; or when the species is not at present in that collection, the museum in which it has been observed is added after the general habitat of the species. The different individuals of each species containedin the British Museum collection, are indicated by the letters *a*, *b*, *c*, &c.

When the age of the specimen is not stated, it is to be understood that it is full grown, or nearly so; when otherwise, its state is marked immediately after the letter by which it is distinguished; and if the sexes are known, it is stated to be male or female. These particulars are followed by the habitat, which is given as particularly as the materials possessed by the Museum permit.

Those specimens which have been presented to the Museum have the name of the donor marked immediately after the habitat. When there is no such indication, the specimens have been either purchased, or procured in exchange; and in this case, whenever the place or person from whom they have been received gives authenticity to the specimen, or adds anything

of moment to their history, they are noted as being from such or such a collection.

In the adoption of generic and specific names, it has been thought right to use, whenever it was possible, that which was first applied to the species. As far as regards the specific names, there is comparatively little difficulty in the application of this simple rule; but generic names have been used by different authors in senses so widely different, and the groups which they were meant to designate have been so variously extended or restricted, that it is no easy matter to determine, where several names have been used, which of them ought to be preferred. And as every original observer will constantly make use of characters which others may have overlooked, or not thought of so much importance as he may be inclined to attach to them, even when a generic name is used, it will of necessity be often employed in a different sense, or with a more restricted or extended meaning than its original proposer applied to it.

It is needless, however, to enter into the details of nomenclature, further than to observe that to the name adopted for the genus is appended the specific name under which the animal is believed to have been first described. If the generic name adopted be different from that employed by the establisher of the species, his name immediately follows it as a synonyme; and where the animal has received more than one specific name, these names are also given. But it has been thought unnecessary to load the Catalogue with any other generic names, where no change has been made in the specific, as it has been considered that these names will be sufficient for all the purposes of identification.

In those cases where the two sexes of the same species, or any particular individual state or variety belonging to it, has been differently named, such names (belonging exclusively to the state or individual so described) are placed after the reference to the specimen to which they generally apply.

To determine with accuracy the names and synonymes of the species, the Museums of Paris, Leyden, Vienna, Berlin, Francfort, &c., have been personally examined. Many of the specimens in the Museum collection have been received from the original describers, and most of them have been examined by M. G. Bibron, one of the authors of the *Erpétologie*

*Générale, ou Histoire Naturelle Complète des Reptiles*, now in the course of publication at Paris. So that there is every reason to believe they are named in perfect accordance with those in the various continental collections.

The specimens presented by

*Sir Joseph Banks*, may be regarded as the type of the species described by Dr. Shaw.

*Thomas Bell, Esq.*, as the types of species described by him in his various papers, and in his very beautiful Monograph of the Testudinata.

*The Earl of Derby*,

*Sir Everard Home*,

*Capt. William Chambers, R.N.*

*Alexander Collie, Esq.*

*John Gould, Esq.*

*General Thomas Hardwicke*,

*Dr. John Richardson*,

*John Reeves, Esq.*

*John Russell Reeves, Esq.*

*Colonel Sykes*, and

*J. Whitfield, Esq.*, as the types of the species described by me in the *Synopsis Reptilium*, the *Illustrations of Indian Zoology*, the *Proceedings of the Zoological Society*, and other journals and books of travels.

*The Royal Society*, as the types of the species described by Pennant in the *Philosophical Transactions*, or figured by Grew in his *Museum*.

*Dr. Rüppell*, as the types of the species described in his *Fauna of Abyssinia*.

*The Hon. East India Company*, as the types of the species described by Dr. Cantor, in his *Fauna of Chusan*.

*Dr. Richard Harlan*, and

*Messrs. Edward and Henry Doubleday*, as the types of the North-American species described by Say, Harlan, and others.

The specimens purchased or procured in exchange from

*The Francfort Museum*, as the types of the species described by Dr. Rüppell.

*The Leyden Museum,* as the types of the species described by Dr. Schlegel in his *Fauna of Japan,* or other works on reptiles.

*The Paris Museum,* as the types of the species described by M. G. Bibron.

*The South African Museum,* as the types of the species described by Dr. A. Smith, in his *Illustrations of the Zoology of South Africa.*

The following list exhibits the geographical distribution of the species. When the species is found in two of the larger divisions of the list, on account of its extensive range, it is preceded by an asterisk. The names of the species which are desiderata in the Museum collection, are printed in *Italics.*

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?Testudo indica, 5. Naturalized

LOCALITY UNKNOWN.

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JOHN EDWARD GRAY.

*British Museum, July* 1, 1844.

# SYNOPTIC CATALOGUE

OF

# REPTILES.

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## Class III. — REPTILES, (Reptilia).

Animal furnished with a distinct bony skeleton. The skin clothed with horny imbedded plates or imbricated scales, which are covered with a thin and often deciduous epidermis. They respire by cellular lungs. The heart has a single ventricle divided into two or more cells, giving origin to two arteries and receiving the cold red blood by two veins from two auricles. Penis distinct. Oviparous, but the egg sometimes hatched in the body of the mother, often covered with a thick more or less calcareous shell. The young like the parent, and not undergoing any transformation.

*Synopsis of the Orders.*

### Sect. I. Scaly Reptiles, (Squamata).

Body covered with overlapping scales. Skull formed of separate bones; the ear-bone external and only articulated to the rest. Vent a cross slit. The generative organs bifid. Tongue free.

1. Lizards, (Sauria). Mouth not dilatable: lower jaw-bones united by a bony suture in front. Limbs 4, distinct, rarely in such a rudimentary state as to be hidden under the skin.
2. Serpents, (Ophidia). Mouth very dilatable: bones of the lower jaws separate from each other, only united by ligaments. Limbs none, or only in the form of short spurs on the sides of the vent.

## Sect. II. Shielded Reptiles, (Cataphracta).

Body covered with square imbedded shields. Bones of the skull adglutinated together, hard, with the ear-bone sunk into its substance. Jaws united into a solid mass: mouth not dilatable. Vent roundish or linear, plaited. The generative organs simple.

3. Tortoises, (Chelonians). Body short, depressed. The bones of the thorax external, surrounding the muscles of the body like a case, out of which the head, limbs and tail are protruded. Jaws toothless, covered with a horny coat.
4. Emydosaurians. Body fusiform, covered with square bony plates placed in longitudinal lines. Limbs 4, free. Vent linear, longitudinal. Jaws with teeth.
5. Amphisbenians. Body elongate cylindrical, covered with square imbedded plates placed in cross rows. Limbs none or very short, weak. Vent transverse. Jaws with teeth.

## Sect. II. Shielded Reptiles, (Cataphracta).

Body covered with square imbedded plates, generally forming a dorsal and ventral shield. The bones of the skull thick, united together into a hard mass, and including the quadrate bones and pterygoid processes. The tongue is short, affixed to the mouth, scarcely exsertible. The lungs are enveloped by a thick peritoneum, which performs the part and has the appearance of a diaphragm. The vent is round or linear, plaited. The male organ and vagina are simple, the former having only a groove along its upper edge. Oviparous: the egg covered with a hard shell: the young, when hatched, having a large umbilical slit, which soon disappears.

## Order III. TORTOISES, (CHELONIA).

The body enclosed in a case, formed of two shields united by their margins, and leaving only the head, neck, limbs and tail free, which are covered with a scaly skin: the upper shield or thorax formed of the ribs more or less dilated on the sides, united together and adherent to the dorsal vertebræ by a toothed suture, preventing any motion; they are surrounded by a series of bones forming the edge of the shields: the lower shield or sternum is formed of four pair and a central anterior bone. The jaws are toothless, covered with a horny bill, rarely hid by fleshy lips: the upper bill covers the lower like a box. Eyes with distinct eyelids. The drum of the ear visible, nearly superficial. The legs short, thick. Tail conical. The vent is a circular hole.

### *Synopsis of the Families.*

1. Testudinidæ. Feet club-shaped; claws 5-4 or 4-4, blunt. Caudal shields united into one, incurved. Neck retractile.
2. Emydidæ. Feet palmated; claws 5-4 or 4-4, acute. Caudal shields separate. Neck retractile. Pelvis attached to the vertebræ only. Sternal shields 11 or 12.
3. Chelydidæ. Feet palmated; claws 5-4 or 5-5, acute. Caudal shields separate. Neck contractile. Pelvis attached to the vertebræ and sternum. Sternal shields 13.
4. Trionycididæ. Feet palmated; claws 3-3, acute. Bones covered with a soft skin having a flexible margin.
5. Cheloniadæ. Feet fin-shaped, compressed.

## Fam. I. Land Tortoises, (Testudinidæ).

Head ovate, shielded: jaws naked: nostril apical. Neck retractile into the cavity of the shell. Feet short, club-shaped, armed with blunt claws. Shell very solid, thick, ovate, the ribs united together to the margin, in the adult state covered with horny concentrically grooved shields, marked with a permanent areola: marginal plates 24 to 26, the caudal pair always united together into one broad generally incurved plate. Sternum broad and solid, closed in the centre of the adult, and firmly attached to the thorax by a bony suture, covered by the end of the pectoral and abdominal plates. Tail short and thick. They are slow in their motion; eating vegetables and roots. In the colder climates they burrow and sleep during the winter.

### *Synopsis of the Genera.*

1. Testudo. Thorax and sternum solid: sternal plates 12; inguinal plate moderate. Toes 5-4.
2. Homopus. Thorax and sternum solid: sternal plates 12; inguinal plates moderate. Toes 4-4.
3. Chersina. Thorax and sternum solid: sternal plates 11. Toes 5-4.
4. Kinixys. Thorax hinder part mobile: sternal plates 12; inguinal plates very large. Toes 5-4.
5. Pyxis. Thorax solid. Sternum front lobe moveable: sternal plates 12.

### 1. Testudo, *Linn.*

Thorax convex, subglobose, solid. Sternum solid, covered with 12 sternal shields, the gular pair separate, inguinal shields moderate. Head scaly, with 2 frontal shields above, and 1 vertical shield between the eyes. Claws 5-4, blunt.

A. *The last vertebral shield almost always as wide as the caudal and two hinder marginal plates. American.* Gophers.

The Gopher or Mungofa. Testudo Gopher, *Bartram, Voy.* i. 55. T. Polyphemus, *Hollbrook, Amer. Rep.* i. *t.* 1. *Daud. R.* i. 256. *Gray, Syn.* 5. *Dum. & Bib. E. G.* ii. 105. *Schw. Arch. Konisb.* i. 317. T. depressa, *Lesueur, Cuv. R. A.* ii. 10. *Guerin, Icon. t.* 1. *f.* 1. T. Carolina, *Linn. Leconte, Ann. Lyc. N. H.* v. 97. T. tabulata, *Schoepf. t.* 13? T. tabulata, var. *Schlegel, F. Japon.* 70. ?T. Schweigeri, *Gray, Syn.* 10. var.

Shell oblong, depressed; shields pale brown, grooved; nuchal shield broad: sternum produced in front, deeply nicked behind; pectoral shields short; head and cheeks covered with scales; tail very short.

*Specimens in British Museum.* *a.* Adult, 8½ inches. N. America. Presented by Richard Harlan, M.D.

*b.* Adult, 10½ inches. N. America. Presented by Edward Doubleday, Esq,

The Brazilian Tortoise. Testudo tabulata, *Walb. Ch.* 70, *t.* 22. *Daud. Rept.* i. 242. *Gray, Syn.* 10. *Bell, Test. t.* 1, 2. *Wagler, Syn. f.* 45, 48. *Neuw. Abbild. t.* . *Dum. & Bib. Erp. Gen.* ii. 89. T Hercules, *Spix, Braz. t.* 14. *Gray, Syn.* 9. T. Boiei, *Wagler, Amp. t:* 6, *f:* 7, 8. *Icones, t.* 13. T. denticulata. *Schoepf. t.* 28, *f.* 1. T. carbonaria, *Spix, t.* 16. *Bell, Test. t.* 1, 2. *Dum. & Bib. E. G.* ii. 99. T. tessellata, *Schn. Schoepf. t.* 12, *f.* 2. *t.* 13. *Neuw. Abbild. t.* . T. Cagado, *Spix, Braz. t.* 17. T. sculpta, *Spix, Braz. t.* 18. T. Græca, *Herm. Obs. Zool.* T. erosa, and T. gigantea, *Schweig.?* T. foveolata, *Licht. Berl. Acad.* 1820, 251. Sphargis Mercurialis, *Schinz. t.* 8, *f.* 1.

Shell subquadrate, oblong, depressed, sides contracted when adult; shields black, grooved, areola small, nuchal plate none; animal red or yellow, spotted.

Var. 1. Large, shell contracted on the sides, sternum roundly lobed behind. *T. Hercules*, Spix.

*a. c.* and *f.* Adult, 11½ inches. Shell only. Sternum rather concave. S. America.

*b. d.* and *f.* Adult, 12½ inches. Sternum very concave. S. America.

Var. 2. Smaller (young?), shell oblong, sternum acutely lobed behind. *T. tabulata*, Walb.

*a.* Adult, 11 inches. Sternum very concave. Trop. America.

*b.* Adult, 9 inches. Sternum flat. Trop. America.

*c.* Adult skeleton 10 inches. Sternum flat. Trop. America.

*d.* Young, in spirits. Gular plates truncated, not produced, marginal plates denticulate; shields brown, areola yellowish.

Var. 3. The last vertebral nearly as broad as the caudal and half of each of the hinder marginal shields.

*f.* Half-grown animal and shell. West Indies. Presented by J. Gould, Esq.

B. *The last vertebral generally only as wide as the caudal and half of each of the hinder marginal shields. Confined to the Old World.*

The Indian Tortoise. Testudo Indica, *Gmelin, S. N. Gray, Syn.* 9. *Cat. Zool. Soc.* 40, *fig.* 9. Chersina retusa, *Merrem.* T. Elephantopus, *Harlan, J. Acad. Phil.* iii. 284, *t.* 9. T. nigra, *Quoy, Voy. Uran. t.* 40. *Dum. et Bib. E. Gen.* ii. 115. T. Californica, *Quoy.* T. Dussumieri, *Schlegel, Mus. Leyd.* i. *Pet.*

*Gaz. t.* 76, *f.* 4. T. gigantea, *Schw. Arch. Konisb.* i. 327. *Dum. & Bib. E. G.* ii. 120. *Schoepf. t* 22. *Shaw, Zool. t.* 3. *Weigmann, Bon. Trans. t.* 13. T. Vosmaeri, *Fitz. Cat.* 44. *Dum. & Bib. E. Gen.* ii. 140. T. nigrita, *Dum. & Bib. E. Gen.* ii. 81. T. Daudinii, *Dum. & Bib. E. Gen.* ii. 125. T. Elephantina, *Dum. & Bib. E. G.* ii. 110. T. Perraultii, *Dum. & Bib. E. G.* ii. 126. La ronde, *Lacep. Quad. Ovip.* i. 126, *t.* 5. T. orbicularis, *Bechst.* in *Lacep.* i. 154. T. rotunda, *Latr. Rept.* i. 107.

Black; pectoral shields short; nuchal plates variable or wanting; animal black; last vertebral often as broad as the three last marginal.

*a.* Adult, 32 inches. Nuchal plate, shell only, not a good state.
*b.* Very young, only upper part of shell, no nuchal plate, 4 inches. Presented by J E. Gray, Esq.
*c.* Adult, 21 inches. Nuchal plate distinct.
*d.* Very young, 4 inches. Nuchal plate distinct. Last vertebral narrower than the three last marginal. Bengal. Presented by General J. Hardwicke.
*e.* Young, 14 inches. Nuchal plate distinct. Shell only.
*f.* Young, 7 inches. Nuchal plate none.
*g.* Young, 6 inches. Nuchal plate none, feet bad.
*h.* Young, 5½ inches. Nuchal plate none. Shell only; nucleus of marginal and gular plates pale.
*i.* Very young, 4½ inches. Whitish; nuchal plate none; nucleus of plates dark.
*j.* Adult animal and shell, 23 inches.
*k.* Upper shell only, very large and broad. Presented by E. Cross, Esq.

The Coui. Testudo radiata, *Shaw, Zool.* iii. *t.* 2. *Grew, Mus. t.* 3, *f.* 2. *Bell, Test. t.* 1, 2. *Dum. & Bib. E. G.* ii. 83. T. Coui, *Daud. R.* ii. 271, *t.* 26, *f.* 2. T. Madagascariensis, *Comm. Mus. Par.* T. calcarata, part, *Merrem.*

Shell hemispherical; shields flat, grooved, black, yellow-rayed, areola small, rufous; nuchal shield triangular; sternum produced in front, truncated behind.

*a.* Upper shell only, 9 inches. Madagascar. From the Museum of the Royal Society.
*b.* and *c.* Shell only. Madagascar. Presented by Gen. Th. Hardwicke.
*d.* Shell and animal, 6½ inches. Madagascar.
*e.* Shell only, wanting some plates, 5½ inches. Madagascar.
*f.* Young, shell only, 4 inches. Gular plate short, truncated. Madagascar.
*g.* Young, shell only.
*h.* Very young, shell only.
*i.* Half grown, shell only.

*k.* Adult, shell and animal. Margin and shields much worn. Gular plate produced, rounded, not nicked; anal plate very short, very convex. Madagascar.

The GROOVED TORTOISE. Testudo sulcata, *Miller, Cym. Phys. t.* 26. *Gray, Syn.* 68. *Dum. & Bib. E. G.* ii. 74, *t.* 13, *f.* 1. T. calcarata, *Schn. t.* 12. *Bechst.* in *Lacep.* i. 346, *t.* T. radiata Senegalensis, *Gray, Syn.* 11. *Schlegel, F. Japon.* 74. T. Schoepfii, *Ruppell.*

Shell oblong, depressed, dirty yellow, dorsal line flattened, with a deep triangular notch in front; front and hinder margin strongly reflexed and deeply toothed; lateral edge slightly keeled; caudal plate very broad, inflexed; shields deeply grooved, areola small; sternum produced and bifid in front: animal pale yellow; feet with very large scales in front, thighs with 2 large spines.

*a.* Young, stuffed, 8 inches. Abyssinia. From the Francfort Museum.

*b.* Adult, 19 inches. Upper shell only. S. Africa.

DR. HORSFIELD'S TORTOISE. Testudo Horsfieldii. T. Iberia, *Pallas ? Faun. Casp. t.* 5 ?

Shell oblong, rather depressed, pale, varied with blackish, especially upon the lower side; the gular plates elongate, triangular, longer than broad, the anal plates broader than long, the hinder notch broad, triangular, the hinder marginal plates broad, with the nucleus on the centre of their margin; the front edge of the fore arms with smaller scales than the hinder; the vent with two blunt spines on each side.

*a.* Young. India, Affghanistan. Presented by the Hon. E. India Company.

The LEOPARD TORTOISE. Testudo Pardalis, *Bell, Zool. Journ.* iii. *t.* 25. *Test. t.* 1, 2. *Gray, Syn.* 12. T. armata, *Boie, Erp. Jav. MS.* T. bipunctata, *Cuv. R. A.* ii. 10. *Gray, Syn. t.* 3, *f.* 3, *lower. Gotw. Schildk. t. k. f.* 15.

Shell nearly hemispherical, blackish or yellow, black-spotted; shields grooved; areola of the costal shields near the upper edge; nuchal shields none.

*a.* Sternum only, 13 inches. S. Africa.

*b.* Adult, animal and shell, 12½ inches. S. Africa. From the South African Museum.

*c.* Young, shell without front lobe of sternum; yellow, shields black-edged, areola spotted; shields grooved.

The STARRED TORTOISE. Testudo stellata, *Schweigr. Prod.* i. 325. *Gray, Syn.* 12. *Seba, t.* 80, *f.* 3, *t.* 79, *f.* 3. T. actinoides, *Bell, Zool. Journ.* ii. *t.* 14. *Test. t.* 1, 2. *Dum. & Bib. E. G.* ii. 66. T. elegans, *Schoepf. t.* 25, *f.* 1. *Gray, Syn. t.* 3, *f.* 1, 2. T.

geometrica, *Shaw, Zool.* v. *t.* 2, *f.* 1. Le Geometrique, *Lacep. Q. O.* 155, *t.* 9.

Shell ovate, convex, shields convex, grooved, black, yellow-rayed, areola large, placed near the hinder edge; nuchal shield none; head and feet black, yellow-spotted; tail short.

*a.* Adult, 6 inches. Yellow, black-rayed. Ceylon. Presented by J. E. Gray, Esq.

*b.* Shell only.

*c.* Upper shell only; depressed, broad, pale; nucleus very large, pale margin of shields blackish-marked.

*d.* Young: nucleus moderate; nucleus and margin brown-edged, with 4 broad yellow rays.

Test. elegans, *Schoepf. t.* 26. *Cop. Shaw, Zool.* ii. *t.* 6.

*e.* Adult, shell only, 10 inches. Shields very high, truncated. Philippines.

The Toothed Cape Tortoise. Testudo semiserrata, *A. Sm. Illust. South African Zoology, t.* 4.

Brown, yellow-rayed, below yellow, black-rayed; nuchal shield triangular; the forefeet with large tubercular scales above the claws.

*a.* Adult. Shields rather convex. S. Africa. From the South African Museum.

*b.* and *c.* Shields scarcely raised. S. Africa. From the South African Museum.

*d.* Young, shell only. Thorax orbicular; margin more acutely serrated. S. Africa. From the South African Museum.

The Geometric Tortoise. Testudo geometrica, *Linn. S. N.* i. 353. *Gray, Syn.* 12. *Dum. & Bib. E. G.* ii. 57. T. luteola, *Daud. Rept.* ii. 277, *t.* 25, *f.* 3. T. tentoria, *Bell, Zool. Journ.* ii. *t.* 13. *Mus. Gohr. f.* 13—16. *Seba, t.* 80, *f.* 8. *Lacep. Q. O. t.* 3, *f.* 2. *Shaw, Zool.* ii. *t.* 2. *Schoepf. t* 10. *Daud. t.* 25, *f.* 1. *Bell, Test. t.* 1.

Shell oblong, convex; shields yellow, grooved, black-rayed, areola yellow, truncated; nuchal shield long.

Var. 1. Shell oblong, elongate, narrow: sternum concave: nuchal plate elongate, narrow: caudal shield much incurved, (*T. geometrica*).

*b. c. d. & e.* Shells wanting the front lobe of sternum. S. Africa.

Var. 2. Shell oblong, ventricose: sternum convex, black-rayed: nuchal plates elongate, narrow: shields convex, truncated: caudal shield incurved, convex. *T. tentoria*, Bell.

*a.* Shell wanting the first lobe of sternum, 4½ inches. S. Africa.

*e f.* Shell. Cape of Good Hope. Presented by Gen. Th. Hardwicke.

*g.* Shell only, wanting a few plates, 5 inches. Vertebral shield very high. Cape of Good Hope.

*k.* Shell, young, 2½ inches. Plates flattish. Cape of Good Hope?

*l.* Animal and shell, young, 2½ inches. Plates rather convex. Cape of Good Hope.

Var. 3. Shell oblong, ventricose: sternum convex, dark in the middle, white on the sides: nuchal plates short, truncated: shields convex, often high, truncated.

*h.* Shell, adult, 5½ inches. Dorsal shields high, conical; caudal plate produced. Cape of Good Hope. Presented by Robert Brown, Esq.

*i.* & *j.* Shell, young. Dorsal shield rather convex; caudal plate inflexed. Cape of Good Hope. Presented by Robert Brown, Esq.

VERREAUX' TORTOISE. Testudo Verroxii, *A. Smith, Illustr. Zool. S. Africa, t.* 8. ♂.

Shell black brown, varied with pale yellow rays and spots, beneath yellow, black in the centre; head above yellow; feet with large imbricate scales in front; marginal shields placed at an angle with respect to the costal shield; nuchal plate triangular; discal plate simple, convex.

Inhabits South Africa. Probably only a variety of *T. geometrica*, from a single specimen in Dr. A. Smith's collection.

The MARGINED TORTOISE. Testudo marginata, *Schoepf. t.* 11, 12, *f.* 1. *Gray, Syn.* 11. *Exped. Morea, t.* 7, *f.* 2. *Dum. & B. E. G.* ii. 37. *Wagler, Amph. t.* 25. T. Graii, *Herm. Obs. Zool.* 219 T. Græca, *Lacep. Q. O. t.* 5, *f.* 2. T. Græca, var. *Schlegel, F. Japon.* 7. T. campanulata, *Walb. Chel.* 124. T. lutraria, *Gmel.* T. rotunda, *Lacep. Scheuch, P. S.* ii. 261.

Shell oblong, ventricose, hinder edge horizontally expanded; shields black, yellow-varied, grooved, areola small, yellow; nuchal plate slender, long; animal blackish, limbs largely scaled.

*a.* Young, 3½ inches. Caudal plate produced, flat. S. Europe. Presented by J. E. Gray, Esq.

The TARTARUGA. Testudo Græca, *Linn. S. N.* ii. 552. *Gray, Syn.* 13. *Exped. Morea. t.* 7, *f.* 1. *Shaw, Zool.* ii. *t.* 1. *Schoepf. t.* 8, 9.—*Dum. & Bib. E. G.* ii. 49, not *Pallas.* T. Carolina, *Herm.* T. geometrica, *Brunnich, Adriat.* 92. T. Hermanni, *Schneid.* 348. *Seba, t.* 80, *f.* 1. *Knorr, Del. Nat.* ii. *t.* 52, *f.* 1. T. pusilla, *Shaw, Zool.* iii. 53. T. Ibera, *Pallas? Zool. Ross. Eichw. Z. Spec.* ii. 196. *Fauna Casp. Cauc.* 43, *t.* 5.? T. Mauritanica, *Dum. & Bib. H. Gen.* ii. 44. *Edw. Birds, t.* 204. T. Zohaffa, *Forskael, F. Arab.* 12.

Shell oblong, subglobose; shields rather convex, black and yellow-varied; nuchal shield distinct.

*a.* Sternum flat, black, 5 inches. S. Europe. Presented by J. E. Gray, Esq.
*b.* Sternum rather concave, black, 4½ inches. S. Europe. Presented by Gen. Th. Hardwicke.
*c.* Vertebral shields convex, sternum black, 5 inches. S. Europe. Presented by Gen. Th. Hardwicke.
*d.* Sternum black varied, 6 inches.
*e.* Sternum black varied, 5½ inches. S. Europe.
*f.* Sternum black varied, 7 inches. Some of the marginal plates wanting. S. Europe.
*g.* Shell only, 5½ inches. S. Europe.
*h.* Shell only, 5 inches. S. Europe. Presented by J. E. Gray, Esq. Testudo Mauritiana, *Dum. & Bib. E. G.* ii. 44.
*i.* Shell only, 7½ inches. S. Europe. Presented by Gen. Th. Hardwicke.
*j.* Shell only, young, 2½ inches. S. Europe. Presented by Gen. Th. Hardwicke.
*k.* In spirits, 4 inches. S. Europe. Presented by J. E. Gray, Esq.
*l.* In spirits, young, 2½. S. Europe. Presented by J. E. Gray, Esq.

### 2. Homopus, *Dum. & Bib.*

Shell depressed, solid. Sternum solid, hinder lobe sometimes mobile, sternal shields 12, gular plates separate. Claws 4-4.

The Areolated Tortoise. Homopus areolatus, *Dum. & Bib. E. Gen.* ii. 146, *t.* 15, *f.* 2, 3. Testudo areolata, *Thunb. N. A. Sued.* viii. 180. *Gray, Syn.* 13. *Bell, Test. t.* 1, 2. *Seba*, i. *t.* 80, *f.* 61. *Schoepf. t.* 23. Chersina tetradactyla, *Lesson, Bull. Sci.* xxv. 119. *Merrem, Test.* 43. T. fasciata, *Daud. R.* ii. 294. T. pusilla, *Daud. R.* ii. 299. T. Juvencella, *Daud.* R. Le vermillion, *Lacep. Q. O. p.* 166.

Shell oblong, depressed, bent up on the sides; shields convex grooved yellow; sutures deep, areola sunk fulvous; nuchal shield slender; animal pale brown; legs largely scaly.

*a.* Not good state, 3 inches. Cape of Good Hope. Presented by R. Brown, Esq.
*b.* Shell only, 3⅗ inches. Presented by J. E. Gray, Esq.
*c.* Animal and shell, 3½ inches. From the South African Museum.

The Speckled Tortoise. Homopus signatus, *Dum. & Bib. E. Gen.* ii. 182. Testudo signata, *Walb. Chel.* 71, 120. *Schoepf.* 120, *t.* 28, *f.* 2. *Gray, Syn.* 13. *Bell. Test. t.* . T. denticulata, var. *Gmel. S. N.* i. 1045. T. cafra, *Daud. Rept.* ii. 291. T. pardalis, *Jun. Schlegel, F. Japon.* 73.

Shell oblong, uniformly inclined on the sides; shield flattish, yellow, black-lined or dotted, areola blackish, sunk.

*a.* In spirits, young. S. Africa.
*b.* Dry, very young. Isle of France?

### 3. Chersina, *Gray.*

Thorax convex, very solid. Sternum solid, sternal shields 11, the gular pair united into a single produced one, inguinal plates moderate. Claws 5-4.

The Angulated Tortoise. Chersina angulata, *Gray, Syn.* 15, 69, *t.* 1, 2. Testudo angulata, *Dum. Mus. Paris. Schw. Arch. Konisb.* i. 321. *Bell. Test. t.* 1. *Dum. & Bib. E. Gen.* ii. 330. T. Bellii, *Gray, Spic. Zool.* t. 3, *f.* 4. *Knorr, Del. Nat.* ii. *t.* 52, *f.* 2. T. flavo-fusca, *Mus. Berl.* T. pusilla, *Linn. S. N.* ii. 353. T. Graii, *Dum. & Bib. E. Gen.* ii. 135. T. tabulata, var. Africana, *Schw. Arch. Kon.* i. 322. T. peltastes, *Dum. & Bib. E. Gen.* ii. 138.

Shell oblong, ventricose; shields black-grooved, yellow-varied, areola yellow, sunk.

*a.* Adult, worn. Pale horn-color, with a brown spot in each areola, 7½ inches. S. Africa. Presented by J. E. Gray, Esq.

*b.* Half-grown animal, not good state, 5½ inches. Cape of Good Hope. Presented by Robert Brown, Esq.

*c.* Half-grown, shell only, 5½ inches. Cape of Good Hope. Presented by R. Brown, Esq.

*d.* Young, solid; shell only, 4 inches. Cape of Good Hope. Presented by J. E. Gray, Esq.

### 4. Kinixys, *Bell.* Cinixys, *Wagler.*

Thorax convex, hinder lobe becoming mobile, with a carious suture. Sternum solid; sternal plates 12; gular pair produced and separate; inguinal plates very large. Claws 5-4, outer front one very small.

In the young, the dorsal suture is scarcely observable, but then the genus can be distinguished by the large size of the inguinal plates, the suture becomes more observable as the animal increases in age; unlike the box tortoises, where the moveable lobes of the sternum often become anchylosed in the older specimens. Cuvier only having seen one specimen (Reg. An. ii. 10), considered this structure as an accidental deformity, and Wagler by mistake says it is the front part that is moveable.

** Fifth vertebral plate produced.*

Home's Kinixys. Kinyxis Homeana, *Bell, Linn. Trans.* xv. *t.* 17. *Gray, Syn.* 15. *Dum. & Bib. E. G.* ii. 161, *t.* 14, *f.* 2. Test Homeana, *Gray, Z. M.* 1825. Test. angulata, adult, *Schlegel, F. Japon.* 72.

Shell oblong, subquadrate, brown, hinder edge reflexed; upper edge of the fifth vertebral shield compressed, produced; nuchal shield generally distinct.

*a. and b.* Shell only, 7 inches. Demerara. Presented by Sir E. Home, Bart.

** *Fifth vertebral plate regularly rounded.*

Eroded Kinyxis. Kinyxis erosa, *Gray, Syn.* 16. *Dum. et Bib. E. Gen.* ii. 165. K. castanea, *Bell, Linn. Trans.* xv. *t.* 18. Test. erosa, *Schn. Arch. Konisb.* i. 321. T. denticulata, *Shaw, Zool.* ii. *t.* 13, not *Linn.* T. angulata, adult, *Schlegel, F. Japon.* 72.

Shell oblong, brown (yellow-rayed ?), hinder edge reflexed, toothed, the fifth vertebral shield equally rounded, nuchal shield none.

*a.* Adult shell with fore feet only, 9½ inches. W. Africa, Gambia.
*b.* Half grown, shell only, 6 inches. W. Africa.

Kinixys castanea, *Bell, Linn. Trans.* xv. *t.* 18.

. Half grown, shell only, 5 inches. W. Africa?

Bell's Kinixys. Kinixys Belliana, *Gray, Syn.* 69. *Griffith, A. K. t. Dum. & Bib. E. G.* ii. 168.

Shell oblong, subquadrate, yellow, brown-rayed, rather depressed in front, margin nearly entire, (worn ?); fourth and fifth vertebral shields equally convex; nuchal shield elongated.

*a.* Yellow, much rubbed. Presented by John Edward Gray, Esq.
*b.* Yellow, brown-rayed. Gambia. Presented by J. Whitfield, Esq.

5. Pyxis, *Bell.*

Shell subglobose, solid. Sternum with the front lobe mobile, the suture below the humeral and pectoral shields. Toes ——?

The Pyxis. Pyxis arachnoides, *Bell, Linn. Trans* xv. *t.* 16. *Gray, Syn.* 16. *Dum. & Bib. E. G.* ii. 156, t. 14, *f.* 1. P. Madagascariensis, *Lesson, Bull. Sci.* xxv. 120. Testudo geometrica, var. *Schlegel, F. Japon.* 74.

Shell hemispherical, yellow and black varied, very variable in colour.

Inhabits Madagascar. Mus Bell. two specimens.

## Fam II. Terrapens, (Emydidæ).

Head rather depressed, covered with a hard or soft skin: jaws naked: nostril small, apical. Neck retractile into the cavity of the thorax. Feet depressed, expanded: toes 5-5 or 5-4, almost always webbed to the claws: claws sharp. Tail conical, shielded beneath. Thorax generally depressed, solid, with a distinct bony margin, covered with horny plates. Discal plates 13, marginal 24-26, caudal always separate; sternal shields 11 or 12, gular pair sometimes united. The vertebræ of the neck bent in a perpendicular bow. Pelvis only united to the vertebræ. Rapid; living in fresh-water ponds. Carnivorous, only taking their food while in the water. Egg oblong, white.

*Synopsis of the Genera.*

A. *Head and tail moderate, sterno-costal suture simple.*

a. *Sternum solid, truncated before and nicked behind, attached to the thorax by a bony symphysis; sternal plates* 12; *axillary and inguinal plates moderate or none.*

Geoemyda. Head covered with a thin skin: toes 5-4, free, short.

Emys. Head covered with a thin hard skin: toes 5-4, webbed.

Tetraonyx. Head covered with a thin hard skin: toes 4-4, webbed.

Malaclemys. Head depressed, covered with a soft skin: toes 5-4, webbed.

b. *Sternum divided by a central cross suture, attached to the thorax by a ligamentous suture; sternal plates* 12; *axillary and inguinal plates very small.*

Cistuda. Sternum rounded before.

c. *Sternum divided by two cross sutures, central lobe attached to the thorax by a bony symphysis; sternal plates* 11 *or* 8; *the axillary and inguinal plates large.*

Kinosternon.

B. *Head and tail very large, sterno-costal symphysis covered with one or three peculiar plates.*

d. *Sternum cross-like, acute before; sternal plates* 10, *with a broad one on each side, over the sides of the sternum.*

Chelydra. Tail crested.

e. *Sternum broad, truncated before; sternal plates* 12; *sterno-costal suture covered with three additional plates.*

Platysternon. Tail cylindrical, shielded.

1. GEOEMYDA, *Gray.*

Head covered with a thin continued skin; chin not bearded. Legs strong, not fringed behind. Toes 5-4, strong, short, free, covered above by a series of shields; claws short. Tail tapering. Shell depressed, three-keeled; hinder edge strongly toothed. Sternum solid, broad, truncated before, nicked behind; gular plate, linear, band-like, small; axillary and inguinal plates small.

The TOOTHED LAND EMYS. Geoemyda Spengleri, *Gray, Pr. Z. Soc.* 1834. Testudo S. *Walb. Hist. Naturf.* vi. *t.* 3. *Gmelin, S. N.* i. 1043. *Schw.* 310. *Gray, Syn.* 21. *Dum. & Bib. E. Gen.* ii. 308. T. serrata, *Shaw, Zool.* iii. 50, *t.* 9. T. serpentina, var. *Latr. Rept.* i. 163. T. tricarinata, *Bory, Atlas. t.* 37, *f.* 1.

Shell oblong, depressed, pale brown, three-keeled; keels continuous, distant, black-edged, hinder edge deeply serrated; vertebral shields quadrate; sternum black, yellow-edged: animal olive, red dotted, with a white streak on each side of the neck.

*a.* Adult, dry animal (shell lost one scale). 3½ inches. China. Presented by John R. Reeves, Esq.

*b.* Shell only. Africa.

The SPINOSE LAND EMYS. Geoemyda spinosa, *Gray, Pro. Z. Soc.* 1834. *Illust. Ind. Zool. t.* , *f.* 2. Emys s. *Gray, Syn.* 20. *Illust. Ind. Z. t. f.* 1 (young). *Bell, Test. t.* 1. *Dum. & Bib. Erp. Gen.* ii. 327. "E. bispinosa," *Schlegel.* Testudo Emys, *Muller, Verh. Rept. t.* 4? Vertebral plates not keeled.

Shell oblong, subquadrate, keeled, flattened above, chesnut brown, front and hinder edge strongly serrated; vertebral plates broad, first suburceolate; costal plates with a posterior, subsuperior areola, with a slight subconic tubercle; beneath yellow, brown rayed; *young* depressed, pale brown, bluntly keeled, with a distinct spine in the areola of each discal plate.

*a.* Adult, 8 inches. Sumatra.

2. EMYS, *Brongn.*

Head moderate, covered with a thin hard skin; chin not bearded. Feet short, covered with scales; toes 5-4, strong, shielded above, webbed to the claws. Tail moderate. Shell depressed. Sternum solid, broad, truncated before, nicked behind, affixed to the thorax by a bony symphysis, covered by the ends of the pectoral and abdominal plates; axillary and inguinal plates moderate, distinct.

A. *Vertebral plates elongate, lozenge-shaped.* (Asiatic).

*a.* Shell very solid, shelving on the sides; keel tubercular, margin entire.

*b.* Shell depressed, three-keeled.

B. *Vertebral plates 6-sided, margin subdentate.*

*a.* Asiatic.
*b.* European.
*c.* American.

* *Sternum nicked behind.*

† Shell with a continuous keel.
†† Shell tubercularly keeled.
††† Shell keelless or only keeled when young, neck streaked.
†††† Shell keelless, like the neck, yellow spotted.

** *Sternum truncated at each end, shields pale-edged.*
*** *Sternum acute at each end. E. Kinosternoides.*

A. *Vertebral plate lozenge-shaped.* Asiatic.

The PANGSHURE. Emys tectum, *Bell. Test. t.* 1, *f.* 1—4. *Gray, Syn.* 23, *t.* 25. *Illust. Ind. Zool.* ii. *t.* 72, *f.* 1, 2. *Dum. & Bib. E. Gen.* ii. 321. *Schlegel, F. Jap.* 51. E. trigibbosa, *Lesson, Bull. Sci. Nat.* xxv. 121, *& Belanger, Voy.* 29. Testudo Pangshure, *n.* 4, and T. khagraskata, *n.* 16, *B. Hamilton, MSS.*

Shell ovate, oblong, solid, olive, with a central interrupted red streak; back angularly elevated, compressed; vertebral shields elongated, six-sided, the 1st, 2nd and 3rd keeled, each produced and subtubercular behind, margin quite entire, shelving; sternum flat keeled, sides high sloping; head olive, with two broad orange converging streaks; neck with close olive lines.

*a, b, c.* Adult, stuffed and in spirits. India. From M. Piquot's collection.
*d.* Adult, in spirits.
*e.* Adult, stuffed. India. Presented by J. E. Gray, Esq.

The DURA. Emys tentoria, *Gray, Pr. Z. Soc.* 1834. E. tectum, adult, *Gray, Illust. Ind. Zool. t.* 72, *f.* 3. Testudo Dura, *B. Hamilton, MSS.*

Shell ovate oblong, olive; back rather angularly compressed; shields slightly rugose, the first vertebral one four-sided, as broad as long, the rest elongated, six-sided, keeled, the keel (of the third especially) produced behind into a tubercle; the marginal and sternal plates yellow keeled; sternum nearly flat, slightly elevated, and keeled on the sides.

*a.* Adult, 6 inches. Deccan. Presented by Colonel Sykes.

DUVAUCELL'S EMYS. Emys Duvaucellii, *Dum. & Bib. Erp. Gen.* ii. 334.

Shell subcordiform, smooth, entire, convex, tent-like, greyish edged with black, and with three black streaks, the side ones on the upper edge of the costal plates; vertebral plates quadrilateral, oblong, very long, keeled on the hinder edge.

Inhabits India, Bengal. In Mus. Paris.

The THICK-NECKED EMYS. Emys crassicollis, *Bell MSS. in Gray, Syn.* 21, *t.* 7, *f.* 3. *Illust. Ind. Zool. t.* 9, *f.* 2. *Dum & Bib. Er. Gen.* ii. 325. E. Spengleri, var., *Schlegel, F. Japon.* 51.

Shell ovate, oblong, rather convex, revolute on the sides and deeply toothed behind, black, slightly three-keeled; keels close; first vertebral plate elongate, six-sided; sternum flat, pale, and keeled on the sides; head and neck thick, black.

*a*. Shell only. 4½ inches long. Sumatra. Presented by Thomas Bell, Esq.

*b*. Animal and shell, half grown, in spirits. Sumatra. From the Leyden Museum.

The THREE-KEELED EMYS. Emys trijuga, *Schweig. Prod.* 310. *Dum. & Bib. Erp. Gen.* ii. 310. E. Belangeri, *Lesson, Voy. Ind.* 291. Testudo scabra, *Shaw, Zool.* iii. 55, from *Seba.* i. 126, *t.* 79, *f.* 1, 2.

Shell convex, oval, brown, three-keeled; keels rather interrupted, margin slightly toothed; shields rugose; areola marginal, posterior, rugose; sternum rather convex on the sides, blackish; head brown, with a yellow streak over each eye; jaws yellow varied.

*a*. Animal and shell. Under side of marginal shield, and edge of sternum yellow. Compared with specimens in the Paris Museum. Presented by J. E. Gray, Esq.

*b*. Shell. Under side of margin and edge of sternum black. India. From the Vienna Museum.
" Emys Hermanni," *Schw.*? *Mus. Vienna.*

B. *Vertebral plate broad, 6-sided. Asiatic.*

The FLAT-BACKED EMYS. Emys platynota, *Gray, Proc. Zool. Soc.* 1834. *Illust. Ind. Zool. t.*

Shell ovate, convex, yellow dotted, with the centre of the back quite flat, as if truncated; shields striated, nucleus central; vertebral shields broader than long, 6-sided, 5th keeled; the front and hinder margin strongly toothed; sternum flat, truncated before, and slightly nicked behind; tail moderate, tapering.

*a*. Adult. Sumatra.

The KACHUGA. Emys lineata, *Gray, Syn.* 23. *Dum & Bib. E. Gen.* ii. 335. Testudo kachuga, *B. Hamilton, MSS. cop.* Emys k. *Illust. Ind. Zool. t.* 74. E. tectum, var., *Schlegel, F. Japon.* 51.

Shell oblong, olive, smooth, tubercularly keeled; vertebral shields quadrate, 3rd broadest, 2nd and 4th longest, six-sided; margin dilated, behind entire; sternum yellowish, truncated before and behind, slightly keeled on the sides; head bluish-ash; cheek and chin yellow-varied; eye-brow and nape scarlet lined; chin with two yellow spots; tail long.

Inhabits India. From Dr. Buchanan Hamilton's drawings.

The Dhongoka. Emys Dhongoka, *Gray, Illust. Ind. Zool.* ii. *t.* cop. Testudo D., *B. Hamilton, MSS.* Emys [illegible] var. *Dum. & Bib. E. G.* ii. 335. E. tectum, var.? *Schlegel, F. Jap.* 51.

Shell ovate, depressed, dark brown, expanded over the legs, and subdentate behind; back shelving, slightly keeled; sternum pale, sides high sloping, keeled: animal olive-green, pale beneath; head with a dark streak from the nostril and eyes to the ears, and a broad blue streak from the angle of the mouth, and on the centre of the chin.

Inhabits India. From Dr. Buchanan Hamilton's drawing.

The Thurgi. Emys Thurgii, *Gray, Syn.* 22, 72. *Dum. & Bib. E. Gen.* ii. 318. Test. Thurgii, *B. Hamilton, MSS.* cop. *Gray, Illust. Ind. Zool. t.* . Emys flavo-nigra, *Lesson, Bull. Sci.* xxv. 12, and *Belanger, Voy.* 22. E. Spengleri, var., *Schlegel, F. Jap.* 51.

Shell oblong, rather convex, olive-brown, margin yellowish, rather toothed behind; vertebral plates 1st quadrate, 2nd and 3rd broad, six-sided; sternum olive, slightly keeled on the sides; head olive, with a yellow band from the nostrils, over the eye-brows, along the side of the neck; feet olive, yellow spotted.

*a.* Adult, 13 inches. India, Bengal. From M. Piquot's collection.

*b.* Young, 5 inches. India, Bengal.

The Three-streaked Emys. Emys trivittata, *Dum. & Bib. E. Gen.* ii. 331.

Shell smooth, entire, subcordiform, swollen, yellowish green, with three broad blackish bands, yellowish beneath: animal olive; jaws toothed.

Inhabits India, Bengal. In Mus. Paris.

The Chinese Emys. Emys sinensis, *Gray, Pr. Z. Soc.* 1834.

Shell ovate, convex, rather strongly keeled, olive, black-speckled; shields smooth, with a central orange streak; vertebral shields broad, six-sided, 1st narrowest, as long as broad; margin entire, rather revolute in front, and expanded over the leg behind, beneath yellow, with an oval, rather posterior, black-edged olive spot; sternum high, slightly keeled on the sides; head and neck olive, with narrow yellow lines.

*a.* Adult, 4 inches long. Presented by John Reeves, Esq.

Beale's Emys. Emys Bealii, *Gray, Proc. Z. Soc.* 1831. *Dum. & Bib. E. Gen.* ii. 325. Cistuda? Bealii, *Gray, Syn.* 71.

Shell ovate, oblong, solid, rather convex, olive, black dotted; back slightly contracted and keeled behind, hinder edge rather expanded; vertebral shields transverse, six-sided; sternum rather

paler, black spotted; head yellowish, black spotted; chin and cheek yellow-marked; occiput with two large eyed spots; neck scarlet-lined.

*a*. Adult animal and shell, 5 inches. China. Presented by J. Reeves, Esq.
*b*. Shell only. China. Presented by J. Reeves, Esq.

The EYED EMYS. Emys ocellata, *Dum. & Bib. E. Gen.* ii. 329, *t.* 15, *f.* 1.

Shell entire, nearly hemispherical, (keeled when young); dorsal plates brown, each marked with a yellow-edged black spot; vertebral plates 1st pentagonal, rest six-sided; tail short; jaws toothed.

Inhabits India, Bengal. Mus. Paris.

REEVE'S EMYS. Emys Reevesii, *Gray, Syn. R.* 73. *Dum. & Bib. E. Gen.* ii. 315. E. Spengleri, var. *Schlegel, F. Jap.* 51.

Shell oblong, very convex, black, (pale brown when dead), obscurely three keeled, keels distant, lateral and continued; vertebral shields broad, six-sided, margin entire, the second pair of sternal shields subtriangular, narrow at the inner edge; inguinal and axillary plates large; head black, cheek and neck yellow-lined.

*a*. Animal, dry, 2¼ inches. China. Presented by J. Reeves, Esq.
*b*. Shell only, 2¾ inches. Presented by J. Reeves, Esq.

DR. CANTOR'S EMYS. Emys mutica, *Cantor, Ann. N. Hist.* 1842.

Shell oblong, keeled, (three-keeled when young), brown; nuchal shield triangular; middle of the sternal plates varied with black; pectoral shields four-sided, the inner side nearly as broad as the outer; inguinal and axillary plates very small.

Very like *E. Reevesii*, but differs in the shape of the pectoral, axillary and inguinal shields.

*a*. Young animal, dry, from spirits, 2¾ inches long. China, Canton. Presented by Hon. E. India Company. From Dr. Cantor's collection.

The BLACKISH EMYS. Emys nigricans, *Gray, Proc. Zool. Soc.* 1834.

Shell ovate, oblong, rather convex, revolute on the sides and slightly toothed behind, brown, slightly three-keeled, the central keel prominent, blunt, interrupted in front and continued behind, the lateral keels far apart, indistinct and interrupted; shield radiately striated, blackish-rayed; nuchal plate none; margin yellow, spotted beneath; sternum convex, rounded on the side; axillary plate moderate, inguinal large.

*a*. Shell only, margin broken, 2½ inches. China. Presented by J. R. Reeves, Esq.

Seba's Emys. Emys Seba, *Gray, Syn. R. t.* 75. *Seba, Thes.* i. *t.* 79, *f.* 12. Emys Thermalis, *Rey. Lesson, Cent. Zool.* 89, *t.* 29.

Shell ovate, convex, brown, entire, three-keeled, keels continuous, central one yellow, lateral ones arched; sternum flat, keeled on the sides, brown, with a pale streak on each side; head red spotted and streaked; feet brown.

Inhabits Ceylon. Mus. Paris.

Hamilton's Emys. Emys Hamiltonii, *Gray, Syn.* 21, 72. *Dum. & Bib. E. Gen.* ii. 316. E. guttata, *B. Hamilton, MSS. Gray, Illust. Ind. Zool. t.* 9, *f.* 1, not *Schweig.* E. Piquotti, *Lesson, Belanger, Voy.* 294.

Shell oblong, convex, solid, with three interrupted keels, slightly toothed behind. black, yellow-rayed; sternum keeled on the sides, black, yellow-varied; head and body black, yellow spotted.

*a.* Animal dry and in spirits. India, Bengal. From M. Piquot's collection.

The Isigame. Emys Japonica. E. palustris, var. Japonica, *Schlegel, F. Japon. t.* 8, *f.* 1—4 young, *t.* 9, adult. E. vulgaris, var. Japon. *Schlegel, F. Japon.* 53.

Shell oblong, (when young suborbicular, strongly denticulated behind), ochraceous yellow above, black beneath; shield concentrically striated, becoming smooth; vertebral shields broad, six-sided; temples black-lined; upper jaw not nicked.

*a* and *b.* In spirits, adult and half grown Japan. From the Leyden Museum.

C. *Vertebral shield broad, 6-sided. European.*

The Caspian Emys. Emys Caspica, *Schw. Dum. & Bib. E. Gen.* ii. 223. *Wagler, Amph. t.* 5, *f.* 1—4. *Icon. t.* 24. *Eichw. Fauna Casp. Caus.* 45, *t.* 3, 4. Testudo Caspica, *Gmel. Reese.* ii. 59, *t.* 20, 11. *S. N.* i. 1042. E. lutraria, var. δ. *Merrem, Tent.* 25. E. Syriaca, *Licht. Berl. Mus.* E. vulgaris, *Gray, Syn.* 24. *Schlegel, F. Japon.* 53. E. palustris v. Dalmatia, *Schlegel, F. Japon. t.* 8, *f.* 4. E. Sigritzii, *Michaell, Isis*, 1829, 1295. E. Sigritz, *Dum. & Bib. E. Gen.* ii. 240. E. lutraria, *Bell, Test. t.* 1, 2. *Gray, Griffith, A. K. t.* . E. leprosa, *Schweig. Prod.* 298. E. marmorea, *Spix. Braz.* 13, *t.* 10. *Gray, Syn.* 28. *Dum. & Bib. E. Gen.* ii. 248. Testudo Græca, *Pallas, Z. R. A.* iii. 17.

Shell ovate, oblong, depressed, olive, with black-edged yellow netted lines; shields flat, vertebral, broad, six-sided; sternum flat, black and yellow varied; head yellow-lined.

*a.* Shell only, 4½ inches. Europe. Presented by Thomas Bell, Esq.

*b*. Shell only, young, with three nodulose keels, 2½ inches. S. Europe. Presented by J. E. Gray, Esq.
*Griffith, A. K. t. , f. .* E. lutraria, *Bell, Test. t.* 1, 2. E. Caspica, *Wagler, Syst. t.* 5, *f.* 1—3. *Amph. t.* 24.
*c*. Adult, 6½ inches. S. Europe.
*d*. Adult, animal and shell. Europe (Nantes?) Presented by J. E. Gray, Esq.

D. *Vertebral shield broad, 6-sided. America.*

* *Shell with a continuous keel, neck not streaked, sternum nicked behind.*

Two Spotted Emys. Emys Muhlenbergii, *Schweig. Prod.* 310. *Gray, Syn.* 25. *Dum. & Bib. E. G.* ii. 304. *Holbrook, N. Amer. Herpet.* i. 59, *t.* 5. Testudo Muhlenbergii, *Schoepf. Test.* 152, *t.* 51. Emys biguttata or bipunctata, *Say, J. Acad. N. S. Phil.* iv. 205.

Shell oval-oblong, smooth, low, slightly keeled, contracted on the sides; shields slightly radiately and concentrically grooved, chesnut, with yellow areola; nuchal linear; head blackish, with two large, irregular, fulvous, occipital spots.

Inhabits North America, New Jersey and East Pensylvania. Rare. Mus. Paris.

The Engraved Emys. Emys pulchella, *Schweig.* 303, (not *Schoepf.*) *Dum. & Bib. E. G.* ii. 251. E. scabra, *Say, J. Acad. N. S. Phil.* iv. 204, (not *Linn.*) E. insculpta, *Leconte, Ann. Ly. N. Y.* iii. 112. E. speciosa, *Bell, MSS. Gray, Syn.* 26. (Var. shield smooth). *Holbrook, N. A. Herpet.* iii. 17, *t.* 2. E. inscripta, *Mus. Par.* E. Muhlenbergii, var. *Schlegel, F. Jap.* 56.

Shell oblong, depressed, keeled in front, hinder edge slightly reflexed; shields radiately and concentrically grooved, minutely yellow and black dotted; areola small; nuchal slender; sternum yellow, areola posterior, marginal, black.

Inhabits N. America. Mus. Bell.

The Rough Emys. Emys scabra, *Gray, Syn.* 25. Testudo scabra, *Latr. Rept.* i. 148. *Daud.* iii. 129. *Bell, Test. t.* 1, 2. La raboteuse, *Lacep. Q. O.* i. 161, *t.* 10. T. verrucosa, *Latr. R.* i. 156. *Daud.* ii. 134. Emys dorsata, *Schoepf. Test.* 136. *Schweig.* i. 297—425. E. dorsalis, *Spix. Braz.* i. *t.* 96, young. Testudo punctularia, *Daud. R.* ii. 549. *Schweig.* 305. *Gray, Syn.* 25, 13. *Dum. & Bib. E. G.* ii. 243. *Schlegel, F. Jap.* 55.

Shell oblong, convex, brown, slightly keeled, flattish above, and shelving on the sides; shields blackish edged; nuchal very short; head blackish, with an orange spot on each nostril or band over each eyebrow, and a large spot on each side of the nape; tail short.

Inhabits Tropical America. Mus. Bell.

** *Back tubercularly keeled, neck streaked.*

The GEOGRAPHIC EMYS. Emys geographica, *Lesueur, Jour. Acad. N. S. Phil.* i. 86, *t.* 5. E. Lesueurii, *Gray, Syn. R.* 31. E. pseudographica, *Lesueur, MSS.*

Shell ovate, convex, smooth, tubercularly keeled in front and slightly toothed behind, olive-brown, with black-edged anastomosing pale lines; 1st and 5th vertebral plate broad, five-sided, rest broad, six-sided; sternum yellow; shields blackish-edged, under side of the marginal plates olive, with rather concentric, black-edged, broad and narrow pale lines; head and feet with numerous yellow lines, and a yellow streak on each temple.

*a.* Animal and shell. The head and throat with broad yellow lines, a dark spot in the upper part of the hinder margin of the two front costal shields. N. America. From Mr. Cuming's collection.

*b.* Animal and shell. The head and throat with narrow yellow lines, a dark spot in the middle of the hinder edge of the two front costal shields. N. America. From M. Parzudati's collection.

The LARGE-HEAD EMYS. Emys megacephala, *Holbrook, N. A. Herpet.* i. 51, *t.* 3.

Shell suboval, flattened, keeled, serrated and acute behind, very dark brown, with obscure orange lines; sternum oblong, slightly nicked behind, dingy yellow; head very large; jaws entire.

Inhabits N. America. Cumberland river, Tennessee, *Troost.*

BENNETT'S EMYS. Emys Bennettii, *Gray, Des. Cat. Rept.* (ined.) 13, *n.* 32.

Shell oblong, rather convex, bluntly and subtubercularly keeled, expanded and entire behind; shields dark horn-colour, concentrically grooved, with a broad blackish edge; the vertebral shields as broad as long, 1st squarish, convex, 2nd, 3rd and 4th six-sided, 5th rounded in front, three-sided behind, nuchal plate oblong; beneath yellow, with the middle of the sternal plates, all but the edge of the axillary and inguinal plates, and a very large spot rather nearer the hinder edge of the marginal shields, black: animal olive; head and neck with black and yellow lines.

Inhabits North America? Mus. Zool. Soc.

*** *Shell keelless or only keeled when young, neck streaked, the three front middle claws often elongated, straight.*

The POTTER or RED-BELLIED TERRAPEN. Emys serrata, *Say, J. A. N. Philad.* iv. 204. *Harlan, Amer. Erpet.* 78. *Gray, Syn.* 20. E. serrata, var. *Schleyel, F. Japon.* 58. E. irrigata,

*Bell, MSS. Dum. & Bib. E. Gen.* ii. 276. E. reticularia, *Bell, MSS.* (not *Say*). T. rubriventris, *Leconte, Ann. L. N. York.* iii. 101. *Dum. & Bib. E. G.* ii. 281. *Holbrook, N. A. Herpet.* 7, *t.* 6.

Shell oblong, longitudinally rugose, slightly toothed behind; olive-brown, varied with irregular pale cross bands, and a ring round the areola; vertebral shields bluntly keeled, 1st urceolate, rest long, sides shelving, beneath yellow, with slightly eyed spots on the sutures of the marginal plates; sternum flat, with a dark-edged pale streak on the sutures, between the outer sides of the sternal and marginal plates.

*a.* Animal and shell, 11½ inches. N. America.
*b* and *d.* Shell only, 14 inches. N. America.
*c.* Half grown, 6½ inches. N. America.

The NETTED EMYS. Emys rivulata.

Shell oblong, brown, varied with yellow, with a broad central depression, sides longitudinally rugose, hinder edge rather expanded, simply serrated; nuchal plate elongate; first vertebral plate urceolate, 2nd and 3rd elongate, six-sided, the costal plates with a subcentral, forked or branched, horizontal, yellow band; under side white, varied with irregular dusky clouds, forming obscure rings on the marginal plates.

*a.* Shell only, 9½ inches long. N. America.

D'ORBIGNY'S EMYS. Emys D'Orbignii, *Dum. & Bib. E. Gen.* ii. 272. *D'Orbigny, Voy. Amer. Merid. Rept. t.* 1.

Shell ovate, swollen, nearly smooth, keelless, slightly toothed behind, chesnut-brown, with a black dorsal streak and large triangular black spots on the edge of the disk; first vertebral shield pear-shaped; sternum black, irregularly edged with yellow; upper jaw nicked.

Inhabits S. America, Buenos Ayres. Mus. Paris.

The BEAUTIFUL EMYS. Emys ornata, *Bell, MSS. Gray, Syn.* 30. *Beechey, Voy. t.* . *Dum. & Bib. E. G.* ii. 286, (not *Synon.*)

Shell oblong, longitudinally rugose, olive; vertebral shields irregularly ringed, 1st four-sided, 2nd and 3rd rather long, six-sided, costal and marginal shields with black-edged pale rings having a black central dot; beneath yellow, with round ringed spots on the suture of the marginal plates, and with a dark-edged, irregular, greenish line down the centre of the sternum, and a double one the whole length of the sterno-costal symphysis; head and neck with narrow yellow lines.

*a*. Animal and shell, adult, 6 inches. Tropical America.
*b*. Shell only, adult, 12 inches. T. America. Presented by J. E. Gray, Esq.
*c*. Young, dry, 1½ inch. T. America.
*d* and *e*. Young, in spirits, 2 inches. Mazet Land, *Gray. Beechey, Voy. t.* Presented by Alexander Collie, Esq., R.N.

The Oregon Emys. Emys Originensis. *Harlan, Amer. Jour. Sci.* xxxi. 382, *t.* 31. *Holbrook, Amer. Herpet.* ii. *t.* 1.

Shell suboval, greatly depressed, serrated in front, slightly nicked behind, dusky brown, with a narrow yellow forked line; anterior vertebral irregular, four-sided, marginal plates each with two half oblong spots; sternum broad, oblong, serrated anteriorly, emarginate posteriorly, yellow, with a black blotch extending to all the plates; head small, elongate; upper jaw bidentate.

N. America. Oregon river, *Dr. Nuttall.*

The Lettered Emys. Emys scripta, *Merrem, Tent* 24. *Gray, Syn.* 29. Testudo s. *Schoepf.* 16, *t.* 3, *f.* 4, 5. *Shaw, Zool. t.* 12. *Daud. R.* ii. 140. T. serrata, *Daud. R.* ii. 148, *t.* 21, *f.* 1, 2. *Schoepf. t.* 3, *f* 5. *Schweiger*, 301. *Dum. & Bib. E. G.* ii. 267. *Holbrook, N. A. Herpet.* ii. 31, *t.* 5. Testudo rugosa, var. *Shaw, Zool.* iii. 29.

Shell oblong, longitudinally rugose, keelless, slightly toothed behind, brown, irregularly yellow ringed, and with irregular yellow streaks on the sides; nuchal shield linear, porrect; vertebral shields bluntly keeled, 1st urceolate, 4th and 5th six-sided: under margin with a black spot on the back edge of each plate; sternum rather convex, yellowish, with a spot on the centre of each gular plate, and four on each side of the costo-sternal symphysis; head with a yellow central line, and a triangular spot behind each eye.

*a*. Adult. N. America. Middle and front claws moderate, sternum with solid black spot in front.
*b*. Young, 8 inches. Presented by Gen. Thomas Hardwicke.
*c*. Half grown. N. America. Three middle front claws elongate, sternum with black rings.
*d*. Half grown. N. America. Presented by J. E. Gray, Esq.
*e*. Half grown; in spirits. Three middle front claws elongate, sternum with black spots. N. America. From the Leyden Museum.

Holbrook's Emys. Emys Holbrookii.

Shell oblong, rather convex, scarcely keeled, longitudinally rugose, pale, each shield with two oblong concentric rings, those of the vertebral plates longitudinal, of the costal transverse; marginal plates each occupied with two half round spots, formed of concentric rings; sternum yellow, with a large black spot on each

shield, and with two large oblong spots of irregular concentric rings on each sterno-costal suture; nuchal plate elongate, 1st vertebral square, rather longer than broad, others wide, six-sided.

*a*. Shell only. N. America. Louisiana. From Mr. J. Drummond's collection.

The Dark Hicotee. Emys rugosa, *Gray*, *Syn.* 30. *Dum. & Bib. E. G.* ii. 284. Testudo r. *Shaw*, *Zool.* iii. 28, *t.* 4. E. rugosa, *Sagra*, *Cuba Rept. t.* 2. Var. sternal shield pale, black-edged.

Shell ovate, oblong, rather tubercularly keeled, black above and below, ornamented with yellow spots and lines, hinder edge slightly serrated; shields rugulose; areola indistinct; vertebral shields 1st long, urceolate, 2nd, 3rd and 4th long, six-sided, 5th broad, six-sided, marginal shields yellow, black-dotted. "Animal brown, from head and nape greyish, with a pale streak from the back of each eye."—*Sagra*.

Inhabits America. Mus. Col. Surg.

The Hicotee. Emys decussata, *Bell*, *Test. t.* 1. *Gray*, *Syn.* 28. *D. C.* ii. 22. *Sagra*, *Cuba Rept. t.* 1. Testudo serrata, *Daud.* (not figure). Emys s. *Schweig.* E. serrata, var. *Schlegel*, *F. Jap.* 58.

Shell oblong, bluntly keeled, hinder edge slightly toothed; dorsal shields rugulose, irregularly radiately grooved, uniform pale brown, beneath yellowish, with obscure subocellate spots on the axillary, inguinal, and on the suture of the marginal plates: animal greenish; cheek and throat indistinctly pale lined.

*a*. Animal and shell, half grown. 6½ inches. West-India Islands, Cuba? Presented by John Edw. Gray, Esq.

*b* and *g*. Half grown, or younger, 6 inches.

*c*. Shell and skeleton, adult, 10 inches. Presented by J. E. Gray, Esq.

*d*. Shell only, adult, 9½ inches. C. America.

*e*. Shell only, adult; and *f*. Shell only, half grown, more mottled. Presented by J. E. Gray, Esq.

Troost's Emys. Emys Troostii, *Holbrook*, *Amer. Herpet.* i. 55, *t.* 4.

Shell broad, depressed, squarish, blackish, varied with greyish blotches, slightly serrated before and deeply behind; plates slightly longitudinally rugose, vertebral plates broader than long, the 1st small, narrow, urceolate, 1st and 3rd very bluntly keeled, nuchal plate very narrow, convex; sternum broad, dirty yellow, plates edged and varied with black; head long, narrow, olive; throat pale olive, with paler lines; upper jaw emarginate, lower with a tooth; claws elongate, stout.

*a*. Animal and shell in spirits. With a large, oblong, black spot on the centre of each sternal plate. N. America, Cumberland River. From the Leyden Museum.

The Vermiculated Emys. Emys vermiculata.

Shell oblong, rather depressed, bluntly keeled, longitudinally rugose, dark brown, pale spotted; hinder margin rather dilated, toothed; under surface rather convex, pale, with a multitude of small confluent black spots often suffused; sternal shields dark-edged, front and marginal plates vermiculated with black dots; nuchal shield elongate; first vertebral plate 4-sided, suburceolate, broader than long, second elongate suburceolate, margin not ringed beneath.

*a*. Shell only, 6½ inches. Vertebral plates irregular. Tropical America?

*b*. Shell only, 9½ inches. Sternum pale, dark clouded. Tropical America.

The Mobile Emys. Emys Mobilensis, *Holbrook, N. Amer. Herpet.* ii. 53, *t.* 9.

Shell oval, keelless, convex anteriorly, depressed posteriorly, entire in front, emarginate and subserrated behind, olive with forked lines, longitudinal upon the vertebral, transverse on the costals; the first vertebral plate urceolate; jaws serrated, inferior furnished with a hook; sternum yellow, slightly clouded with black, margin with a yellow-ringed black half spot on each edge. Animal very like A. Floridana, but streaks broader.

Inhabits N. America, at Mobile, Alabama.

The Neat Emys. Emys concinna, *Dum. et Bib. E. G.* ii. 289. Testudo concinna, *Leconte, Ann. Lyc. N. Y.* iii. 106.

Shell oblong, depressed, keelless, very smooth, nicked behind, dark brown varied with yellow netted lines; first vertebral plate 6-sided, second, third and fourth broad 6-sided, nuchal shield small, oblong: beneath yellow, with large black sutural spots on the margin; head and neck yellow-lined.

Inhabits N. America.

The Chicken Tortoise. Emys reticularia, *Merrem, Tent.* 29. *Gray, Syn.* 27. Testudo reticularia, *Latr.* i. 124. T. reticulata, *Bosc. Daud. Rept.* ii. 144, *t.* 22, *f.* 3. *Schwæg.* 50. *Say, Jour. N. S. Phil.* iv. 204, 109. *Dum. et Bib. E. G.* ii. 291. *Holbrook, N. Amer. Herpet.* ii. 41. Emys geographica, *Mus. Bell.*

Shell oblong, keelless, olive brown, pale netted, longitudinally rugose, hinder edge entire; shields with a black-edged pale ring round the arcola sending out radiating lines; first vertebral quadrate, rest squarish, 6-sided, with three or four round black spots placed on the sutures of the under side of the lateral marginal

plates, and some linear spots on the sutures of the hinder ones, an oval eyed spot at each end of the sterno-costal symphysis.

Inhabits North America. Mus. Bell. Young.

The Large-headed Emys. Emys macrocephalus. E. megacephalus, *Gray, Desc. Cat. Rept.* 13, *n.* 33 (ined.), not Holbrook.

Shell oblong, convex, subtubercularly keeled, reddish brown, darker on the edge of the shields, concentrically grooved; nuchal plate broad, margin slightly expanded; vertebral plates 6-sided, broader than long, first 5-sided, narrower, rather contracted on the hinder side; sternum yellow, black varied, symphysis, the small long axillary plate, and underside of marginal plate black, the latter with a large triangular central yellow spot; head very large, blackish, with a pale streak from the back edge of the eye. Animal grey, with small black scales.

Inhabits ——— America? Mus. Zool. Soc.

The Florida Emys. Emys Floridana, *Leconte, Ann. Lyc. N. Y.* iii. 100. *Dum. et Bib. E. Gen.* ii. 285. *Holbrook, N. A. Herpet.* ii. 47, *t.* 8. Test. Floridana, *Leconte, Ann. Lyc. N. Y.* ii. 101.

Shell oval, gibbous, longitudinally rugose, slightly carinated and entire behind, dark brown, with irregular yellow lines; nuchal shield triangular, beneath yellow, with a half black spot on each edge of the marginal plate above and below; jaws toothless; first vertebral urceolate, second and third hexagonal; plates olive, with several irregular black streaks, longitudinal on the vertebral and transverse on the costal plates; head and neck dark olive with two pale streaks for each eye, and two on each side of the neck below, the upper one with a branch to the eyes, the inferior pair united together in front of the throat with a single streak to the chin.

Inhabits N. America, Florida.

The Hieroglyphic Emys. Emys hieroglyphica, *Holbrook, Amer. Herpet.* i. 47, *t.* 2.

Shell oval, depressed, keelless, smooth, entire in front, elongated and imperfectly serrated behind; sternum oblong, nicked behind, dingy yellow, sides olive varied; head very small, upper jaw slightly emarginate, lower jaw with a tooth; first vertebral urceolate; each costal shield with four or five, and each marginal with dark spots with concentric yellow lines.

*a.* Animal and shell stuffed, (rather discoloured?). America? Presented by John Edward Gray, Esq.

**** *Shell keelless, neck and shell yellow-spotted.*

The Speckled Tortoise. Emys guttata, *Schneider*, 309, 433. *Gray, Syn.* 26. *Dum. et Bib. E. G.* ii. 295. *Holbrook, N. A. Herpet.* ii. 25, *t.* 4. Testudo guttata, *Bechst. in Lacep. Q. O.* i. 310. *Shaw, Zool.* iii. t. 10. T. punctata, *Schneid. Schildk.* 30. *Daud.*

*R.* ii. 159, *t.* 22. *Schoepf. t.* 5. *Wagler, Syst. t.* 5, *f.* 6, 7. T. anonyma, *Schw. Seba*, i. 130, *t.* 80, *f.* 7. *Gothv. Schildk, f.* 15.

Shell ovate, depressed, dilated behind; shields smooth, black-brown with round yellow spots; nuchal linear; sternum yellow brown varied; head yellow-spotted.

*a.* Animal and shell. Inhabits N. America. Presented by Henry Doubleday, Esq.
*b.* Shell and dry animal.

E. *Sternum broad and truncated at each end,* (Chrysemys).

The PAINTED TORTOISE. Emys picta, *Schweig.* 306. *Gray, Syn.* 26. *Dum. et Bib. E. G.* ii. 297. *Holbrook, N. A. Herpet.* ii. 19, *t.* 3. Testudo p. *Herm. Schneid. Sch.* 348. *Schoepf. t.* 4. *Shaw, Zool. t.* 10, *f.* 1. *Seba*, i. *t.* 80, *f.* 5. T. cinerea, *Brown, Illust. t.* 48. *Shaw, Zool. t.* 12. *Schoepf. t.* 3, *f.* 2, 3. Young.

Shell oblong, depressed, keelless, very smooth, shields thin, olive-brown, with a broad yellow or red margin; head and throat black, yellow-lined; tail long, slender.

*f.* Animal and shell. Presented by Henry Doubleday, Esq.
*b.* Shell and dry animal. Presented by J. E. Gray, Esq.
*a. d. & e.* Shell only. N. America.
*g.* Young, in spirits. N. America.
*c.* Young, from spirits.

BELL'S EMYS. Emys Bellii, *Gray, Syn.* 31. *Dum. et Bib. E. G.* 302. E. speciosa, *Clift, Cat. Mus. Col. Surg. n.* 1525, (not Gray).

Shell oblong, solid, rather depressed in the centre, convex on the sides, olive waved with irregular black-edged pale-dotted greenish lines placed on the edge and across the middle of each shield; vertebrals nearly square, first urceolate, the rest 6-sided; beneath black, yellow-dotted; sternum flat, surrounded with an irregular yellow edge, front edge deeply denticulate.

Inhabits America? Mus. Col. Surg.

F. *Sternum acute at each end.* Emyoides.

The SHARP-CHESTED EMYS. Emys kinosternoides, *Gray, Syn.* 32. E. cinosternoides, *Dum. et Bib. E. G.* ii. 303.

Shell (very young) oblong, depressed, pale brown, with a blunt white keel, margin whitish, serrated, beneath yellow, spotless, shields of the disk marked with irregular black-edged white lines: head brown white-streaked, beneath pale. Length 1½ inch.

Inhabits ——— ? Mus. Col. Surg.

G. *Species only known in the very young state.*

The RINGED EMYS. Emys annulifera, *Gray, Syn. R.* 32.

Shell (very young), oblong, depressed, entire behind, the shield

pale brown, lined and ringed with yellow; the vertebral shields with a narrow central row of rings and a larger series on each side; the costal shields brown, white-lined, the marginal ones with concentric slightly eyed squarish brown rings placed upon the suture and occupying half of two shields; beneath pale, with an irregular brown spot and lines placed on the sutures; sternum rounded before truncated behind; head with numerous unequal white lines.

*a.* Young, dry. Inhabits ——— ?

The Eyed Emys. Emys oculifera, *Gray*, *Syn.* 22. Testudo oculifera, *Kuhl*, *Beitr.* 77

Shell (very young) hemispherical, strongly toothed behind; shields elevated, furrowed, granulated, grooved, each two connected longitudinally by a largish round black spot, and horizontally by a largish black circle, consequently each displaying two half eyes and anteriorly and posteriorly two half spots; margin with a spot on each suture, the points of which correspond with the spot on the costal shield; sternum yellow, with dark brown spots and streaks.

Inhabits S. Africa, Cape of Good Hope? Mus. Berlin.

Kuhl's Emys. Emys Kuhlii, *Gray*, *Syn.* 73,

Shell brown, with two broad white long streaks on each side of the vertebral plates and one on each costal, netted with pale lines, margin half-ringed on the suture; sternum with irregular black-eyed rings in the centre of each plate; the head and neck black-lined.

Inhabits ———? Mus. Berl.

### 3. Malaclemys.

Head very large, depressed, covered with a soft spongy skin. Jaws exposed. Chin not bearded. Legs short. Toes 5-4, short. webbed, claws subequal, curved, sharp. Tail conical. Shell depressed, oblong. Sternum solid, truncated before nicked behind, affixed by a bony symphysis. Axillary and unguinal plates distinct. Living in salt-water marshes, moves quickly on land. Torpid in winter. Egg oval: flesh well flavoured. America.

Salt-water Terrapin. Malaclemys concentrica. Testudo concentrica, *Shaw*, *Gen. Zool.* iii. 43, *t.* 9, *f.* 1. *Gray*, *Syn.* 27. *Bell*, *Test. t.* . *Dum. et Bib. E. G.* ii. 261. Terrapin, *Brown*, *Jam.* 466. Le Terrepine, *Lacep. Q. O.* i. 129. T. Terrapin, *Schoepf. Test.* 64, *t.* 15. *Holbrook*, *N. A. Herpet.* ii. 13, *t.* 2. T. palustris, *Gmel. S. N.* i. 1041? *Leconte*, *Ann. Lyc. N. Y.* iii. T. centrata, *Latr. R.* i. 145. *Daud. R.* ii. 153. *Schweigr.* i.304. *Say I. A. N. S. Phil.* iv. 205. Emys livida, *Bell*, *MSS.*

Shell oval, rather convex, slightly tubercularly keeled; shields (and the bone under them) pale yellow, marked with brown con-

centric rings, which are often impressed; animal grey, black-spotted and lined.

*a*. Smooth, highly coloured. N. America. Presented by Gen. Th. Hardwicke.
*b*. Like *a*. Presented by the Earl of Derby.
*c*. Like *a*. Presented by Gen. Th. Hardwicke.
*d*. Smooth, distinctly ringed, 6 inches. N. America. Presented by Gen. Th. Hardwicke.
*e*. & *f*. Shell only: like *d*.
*g*. Shell and animal, dry: like *d*.
*h*. Shell only (young); the three central vertebral plates with a central tubercle, the hinder tubercle orbicular. M. tuberculifera, *Gray, B. M.* California. Mr. J. Drummond's collection.
*i*. Shell only. Mus. Sloane.

### 4. Tetraonyx, *Lesson*.

Head moderate, covered with a thin skin; chin not bearded. Feet largely webbed. Toes 4-4. Tail moderate. Shell oval, rounded, depressed. Sternum solid, broadly truncated before, nicked behind, affixed to the thorax by a bony symphysis, covered with the end of the pectoral and abdominal plates. Axillary and inguinal plates —— ?

The Batagur. Tetraonyx Batagur. Emys batagur, *Gray, Syn.* 24. *Illustr. Ind. Zool.* iii. *t.* Testudo Batagur, *B. Hamilton, MS.* E. Tetraonyx, *Schlegel, F. Japon.* 43. Tetraonyx longicollis, *Lesson, Belanger's Voy.* 297. *Illust. Zool. t.* 7. Tet. Lessonii, *Dum. et Bib. E. G.* ii. 338, *t.* 16, *f.* 1. Trionyx Cuvieri, *Gray, Syn. Rept.* 5. Emys Baska, *Gray, Illust. Ind. Zool. t. B. Hamilton MS. Icon.* (very young). *Dum. et Bib. E. G.* ii. 341. E. Spengleri var. *Schlegel, F. Japon.* 51.

Shell suborbicular, depressed, slightly keeled, entire, dilated behind, pale olive.

Inhabits India, "Calcutta, common," *Blythe*. Mus. Bell. young. Mus. Paris. of a large size, and young.

### 5. Cistuda, *Fleming*. Kinosternon, part, *Bell*. Pyxidemys, *Fitz*.

Head moderate, covered with a thin hard continued skin. Toes 5-4, webbed to the claws, web thick, with a small intermediate lobe between the claws. Tail short. Shell ovate, convex or hemispherical. Sternum broad, rounded before and behind, completely closing the cavity of the thorax, affixed to it by a ligamentous symphysis and divided by a cross suture between the pectoral and abdominal plates. Sternal shields 12. Inguinal and axillary plates very small and distinct. Marginal plates 23—27. Nuchal plate small or wanting. Old and New World.

* Shell convex, edge entire. *Cistuda.*
** Shell convex, edge toothed. *Cyclemys.*
*** Shell depressed, edge entire. *Lutremys.*

a. *Shell convex, edge entire.* Cistuda.

The Box Tortoise. Cistuda Carolina, *Gray, Syn.* 18. Testudo Carolina, *Linn. S. N.* i. 352. *Dum. et Bib. E. G.* ii. 210. *Holbrook, N. A. Herpet.* iii. 9, *t.* 1. T. brevicauda, *Lacep. Q. O.* i. 164. T. clausa, *Gmelin, S. N.* i. 1043. *Daud. R.* ii. 207. *Schoepf. t.* 7. *Shaw, Zool. t.* 7. *Guérin, Icon. t.* 1. *f.* 2. T. virgulata, *Latr. R.* 100. *Daud. R.* ii. 201. *t.* 23. T. incarcerata and T. incarcerata striata, *Bonnat, Ency.* 29. T. carinata, *Linn. S. N.* i. 353. *Schn.* 361. Emys dubia, *Schw.* E. Schneiderii, *Schw.* 317. Terrapene guttata (or T. maculata) and T. nebulosa, *Bell, Zool. Jour.* ii. 309. La Bombe, *Lacep. Q. O.* i. 164. C. Blandingii, *Holbrook, N. A. Herpet.* iii. 35, *t.* 5? *Grew, Mus.* 38, *t.* 3, *f.* 2. *Edw. Birds, t.* 205. Checkered Tortoise, *Penn. Arct. Zool.* ii. 228.

Shell hemispherical, slightly keeled, brown, yellow-varied; shields grooved; marginal plates 23—27. Animal black, yellow or red spotted.

*a.* Stuffed, yellow, black-rayed, beneath brown. N. America. Presented by J. E. Gray, Esq.
*b.* Stuffed, black, yellow-spotted. N. America. Presented by Jacob Green, M.D.
*c.* Shell only, small var. olive, yellow-rayed, beneath olive, yellow spotted and streaked. N. America From Mr. Drummond's collection.
*d.* Upper shell only, yellow, black-rayed. N. America.
*e.* Young, discoloured, animal dry. N. America. Presented by Gen. Th. Hardwicke.
*f.* Shell only, bad state, black, yellow-spotted. N. America.
*g.* Upper shell only, some plates wanting, black, yellow-spotted. N. America. From Dr. Mantell's collection.
*h.* Upper shell only, black, yellow-spotted. N. America.
*i.* Dry animal, yellow, black-rayed. N. America. Presented by Gen. Th. Hardwicke.
*j.* Stuffed, brown, with few yellow spots. N. America.
*k.* Animal and shell, rather elongate, beneath brown. N. America. Presented by H. Doubleday, Esq.

The Couro. Cistudo Amboinensis, *Gray, Syn.* 19. *Illust. Ind. Zool.* t. *Dum. et Bib. E. G.* ii. 215, *t.* 15, *f.* 2. Testudo amboinensis, *Daud. Rept.* ii. 309. T. Couro, *Leschn. Mus. Par.* Emys Amboinensis, and E. Coura, *Schw. Prodr.* i. 214, 315. Terrapena bicolor, *Bell, Zool. Journ.* ii. *t.* 16. E. Couro, var. *Schlegel, F. Japon.* 64.

Shell hemispherical, slightly three-keeled, blackish, margin broad expanded; nuchal shield linear; sternum black and yellow varied; animal blackish, yellow-varied, head dark, with two broad yellow streaks on the side.

*a* Adult, stuffed, 6½ inches. India. Presented by Thos. Bell, Esq., F.R.S.

*b*. Young, head and feet dry, 3-keeled, 2¾ inches. Illustr. Ind. Zool t. 6. Presented by J. E. Gray, Esq.

*c*. & *d*. Young, in spirits, the youngest with granular shields, and the costal shields with a keel rather above the centre. Philippine Islands, from Mr. Cuming's collection.

*e*. Half-grown, stuffed. Singapore.

*f*. Adult in spirits. Amboina, from the Leyden Museum.

The Three-streaked Coura. Cistudo trifasciata, *Gray, Syn.* 19 *Illust. Ind. Zool. t.* *Dum. et Bib. E. G.* ii. 219. Sternotherus trifasciatus, *Bell, Zool. Jour.* ii. 299, *t.* 13. Emys Couro, var. *Schlegel, F. Japon.* 64.

Shell subovate, hemispherical, solid, keeled, dull yellow, red and black varied, with three blackish dorsal streaks; sternum bifid behind; head yellow, with two horizontal black streaks on the side of the head and neck, upper wider, with a triangular paler spot in front and two larger oval ones behind.

*a*. Shell and dry animal. Shell subovate. China. Presented by J. Reeves, Esq. Ditto, upper shell only.

*b*. Shell only. Shell depressed and expanded. China. Presented by J. Reeves, Esq.

*c*. Shell only. Shell elevated, thick, worn on the surface. China. Presented by J. Reeves, Esq.

*d*. Upper shell only, like *a*. China.

### b. *Shell depressed, edge entire.* Lutremys.

The Speckled Tortoise. Cistudo Europæa, *Gray, Syn.* 12. *Dum. et Bib. E. Gen.* ii. 220. *Eich. Fauna Casp. Cauc.* 44. *Schlegel, F. Japon.* 52. Testudo Europæa, *Schw. Schildk.* 323. *Shaw, Zool.* iii. *t.* 8. *Schoepf. t.* 1. *Bojanus, Anat. t. Sturm, Fauna, t.* a, b, c. *Wagler, Amph. t.* 5, *f.* 8, 9. T. flava, *Lacep. Q. O.* 135, *t.* 6. T. punctata, *Gottw. Schildk. t.* k, *f.* 12. T. orbicularis, *Linn. S. N.* i. 351. *Wulf. Borus.* 3. T. lutraria, *Rondel. Pisc.* ii. 170. *Gesner, Q. O.* ii. 113, *f.* 5. *Aldrov.* 710. *Brünn. Adriat.* 91. *Herm.* T. pulchella, *Schoepf. t.* 26, *young.* T. Meleagris, *Shaw, Nat. Misc.* iv. 144, (shell polished). Emys Hellenica, *Valenc. Voy. Morea, t.* 8, *f.* 2. E. antiquorum, *Val. Voy. Morea, t.* 8, *f.* 1.

Shell depressed, ovate, brown, with radiating lines of yellow

dots; sternum slightly nicked behind; head and body black, yellow-dotted; tail elongate.

*a*. Shell only, adult, brown, yellow-dotted. S. Europe.
*b*. Shell and dry animal, brown, yellow-dotted, 6½ inches. Europe
*c*. Young, brown, paler rayed, hinder half only with dry animal. T. pulchella, *Schoepf*. Presented by Thomas Bell, Esq.
*d*. Young, in spirits. Albania. Presented by W. W. Saunders, Esq.

c. *Shell depressed, toothed.* Cyclemys.

The Dhor. Cistuda dentata. Emys dentata, *Gray*, *Illust. Ind. Zool. t*, , young. E. Dhor or E. dentata, *Gray*, *Syn.* 20, *t*. 8, 9. E. Hasseltii, *Boie*, *Mus. Leyd.*, young. E. Spengleri, var. *Schlegel*, *F. Jap.* 51. Cyclemys orbiculata, *Bell. Pr. Zool. Soc.* 1824, 17, adult. Cis. Diardi, *Dum. et Bib. E. G.* ii. 227.

Shell suborbicular, back flattened, keeled, hinder edge toothed sternal shields yellow, brown-rayed.

*a*. Young, in spirits. Suborbicular, depressed, brown, black-dotted, bluntly keeled, edge acutely toothed, sides of neck and throat yellow-lined, feet yellow-spotted. Java. Presented by Thomas Bell, Esq.
*b*. Young, in spirits. Java. From the Leyden Museum.

6. Kinosternon, *Spix*. Terrapene, *Merrem*. Sternotherus, *Bell*.

Head moderate, covered with a hard thin skin. Chin bearded. Feet and tail nearly naked, with a few scattered scales. Shell ovate. Sternum rounded in front or two-lobed behind, middle lobe covered by the abdominal plates, fixed by a bony symphysis to the thorax, front and hinder lobe more or less free, articulated to the middle lobe: sternal shields 11: gular pair united. Axillary and especially the inguinal plates very large, covering the suture. America.

a. Sternum lobes as broad as the opening, rounded before and acute and entire behind. *K. scorpoides*.
b. Sternum lobes narrower than the opening, nicked behind. *K. oblongum*, and *K. Pennsylvanicum*.
c. Sternum lobes much narrower than the opening, truncated behind. *K. odoratum*.
d. Sternum lobes very narrow, acute at each end. *K. triporcatum*.

a. *Sternum lobes as broad as the opening, rounded in front, entire behind.* Swanka.

The Swanka. Kinosternon scorpioides, *Gray*, *Syn. R.* 24. *Wagler*, *Syst.* 137, *t*. 5, *f*. 31—43. *Bell. Test. t. f.* . *Dum. et Bib. E. G.* ii. 365. K. Shavianum, *Bell. Zool. Journ.* ii. 304. K. longicaudatum, and K. brevicaudatum, *Spix*, *Braz. t*. 12, 13.

Testudo Scorpoides, *Linn. S. N.* i. 152. Emys scorpoidea, *Schw. Prod.* i. 312. T. Pensylvanica, var. *Shaw, Zool.* iii. *t.* 15. T. tricarinata, *Daud.* ii. 178. *Schoepf. t.* 2. *Shaw, Zool.* ii. *t.* 11. T. Retzii, *Daud. Rept.* ii. 174.

Shell oblong, rather compressed, with three continuous keels; dorsal shields longly 6-sided, slightly imbricate; sternum as broad and large as the opening, lobes entire, broad, longer than the middle lobe; gular plate long, triangular, symphysis narrow, as long as the abdominal shields.

*a.* Shell only, swollen and convex, wanting some plates. C. America. Presented by J. E. Gray, Esq.
*b.* Stuffed (not good state), wants dorsal plates. C. America.
*c.* Animal dry, shell wants dorsal plates. C. America.
K. scorpoides, var. acuta, *Gray, Syn.* 14, *t.* 7, *f.* 1.
*d.* Adult, animal and shell in spirits. Back very convex, rounded. Tropical America. Presented by Thomas Bell, Esq.

b. *Sternum lobes narrower than the opening, truncated or nicked behind.* Kinosternon.

The Oblong Swanka. Kinosternon oblongum. Cinostermon hirtipes, *Wagler, Syst. t.* 5, *f.* 29, 30? *Icon. A. t.* 30? *Dum. et Bib. E. G.* ii. 570?

Shell oblong, smooth, olive, convex, flattish above, sternum oblong, narrower than the opening, entire in front nicked behind, head large, yellow-spotted, with a streak over each eye to the side of neck.

*a.* Shell and animal dry. Gular plate triangular as long as broad. America.
*b.* Shell and dry animal. Gular plate broad triangular. America.

Doubleday's Swanka. Kinosternon Doubledayii.

Shell narrow, oblong, smooth, sides convex, back flattened; sternum high on the sides, lobes much narrower than the cavity, rounded in front, bifid behind, the symphysis very short.

*a.* Shell only, much worn. California.

The Mud Tortoise. Kinosternon Pennsylvanicum, *Gray, Syn. t.* 6, *f.* 4. *Bell, Zool. Journ.* ii. 209. *Holbrook, N. A. Herp.* iii. 23, *t.* 3. *Wagler, Syst.* 137. *Dum. et Bib. E. G.* ii. 367. Testudo P. *Bosc. Gmelin, S. N.* i. 1042. *Schoepf. t.* 24, *f. a. Shaw, Zool. t.* 14, *f.* 2. *Daud. R.* ii. *t.* 24, *f.* 1 & 2. *Say, J. A. N. S. Phil.* iv. 266 *Merrem, Tent.* 27. Tentudo glutinata, *Daud. R. t.* 24, *f.* 4. *Schoepf. t.* 24, *f.* 6. Terrapene Boscii, *Mer.*

Shell roundish oblong, depressed, brown, keelless (3-keeled when young), dorsal shields flattened, lobe of sternum rather narrower than the cavity of the thorax, rounded in front bifid behind; head pale lined, chin 2-bearded; tail clawed; jaws notched.

*a*. Dry animal and much eroded shell. N. America.
*g*. Shell and stuffed animal. Presented by H. Doubleday, Esq.
*b*. Shell only, wanting hind lobe of sternum.
*c*. *d*. In spirits. Young. Shell black, white-spotted beneath. Animal grey-brown, white-dotted, head white-lined. East Florida. Presented by Edward Doubleday, Esq.
*e*. *f*. In spirits. Like *c* and *d*. Presented by Capt. Sir Edward Belcher, R.N., C.B.

The STINK-POT. Kinosternon odoratum, *Gray, Syn. R.* 35, *t.* 6, *f.* 1. *Bonap. Osser.* 168. Testudo o. *Latr. R.* i. 122. *Daud. R.* ii. 189, *t.* 24, *f.* 3. *Say, J. Acad. N. S. Phil.* iv. 206, 216. *Bell, Zool. Journ.* ii. 299. *Holbrook, N. A. Herpet.* iii. 29, *t.* 4. Testudo Pennsylvanica, var. *Schoepf.* 110, *t.* 24, *f.* B. T. glutinata, *Daud. R.* ii. 194, *t.* 24, *f.* 5? Terrapene Boscii, *Merrem, Tent.* 23?

Shell ovate, keeled, sides sloping, pale brown, gular plate minute; sternum very narrow, truncated behind, symphysis elongate very narrow; "head with a brown lateral line; chin with several small warts, neck and throat papillary; tail simple; fore arm with three folds or large scales in front."

*a*. Shell only. N. America.

c. *Sternum very narrow, cross-shaped, acute behind and before, front lobe mobile.* Staurotypus, *Wagler.*

The CROSS EMYS. Kinosternon triporcatum, *Gray, Syn. R.* 76. Terrapene t. *Weigm. Isis*, 1828, 364. *Wagler, Syst.* 137, *t.* 5, *f.* 44, 45. *Icon. t.* 23. *Dum. et Bib. E. G.* ii. 356.

Shell oblong, convex, brown, three-keeled, the central one very large, high and cultrate behind, side ones highest in front; vertebral plates long, imbricate, nuchal plates short, broad; edge indented on the side, expanded and toothed behind; head depressed spotted and lined with white, chin 2-bearded; neck thick.

*a*. Young, in spirits. Pale brown varied with black. Mexico.

7. CHELYDRA, Schw. Emydosaura, *Dum. et Bib.*

Head very large rugose covered with a hard skin; chin 2-bearded; neck very thick, tubercular. Limbs large and strong, tubercular. Tail long, large, with a central longitudinal series of rather compressed tubercles. Shell depressed, toothed behind. Sternum slender, cross-like, acute at each end, centre coriaceous. Sternal plates 5 pair, very thin, skin-like, the narrow lateral prolongation of the sternum covered by a peculiar plate, (perhaps the removed abdominal). America.

The ALLIGATOR TERRAPIN. Chelydra serpentina, *Gray, Syn. R.* 36. C. Lacertina, *Schweigr.* 293. Testudo serrata, *Penn.* (*not Shaw*). *Cat. Liverpool Mus. t.* T. Serpentina, *Linn. S. N.* 351. *Schoepf. t.* 6, (young). *Daud. R.* ii. 98, *t.* 20, *f.* 2. *Shaw, Zool. t.*

19. *Dum. et Bib. E. G.* ii. 350, *t.* 17, *f.* 1. T. longicauda, *Shaw, Mus. Col. Surg.*

Shell oblong, depressed, centre impressed, doubly keeled, bluntly toothed behind. Younger; shell three-keeled, hinder edge sharply toothed. *Schoepf. t.* 6.

*a.* Young animal, stuffed. N. America. Presented by Gen. Hardwicke.

*b.* Adult.

8. PLATYSTERNON, Gray.

Head very large, covered with a thick hard horny case; jaws very strong. Neck very thick, short, subretractile, with small granular scales. Limbs very large, contractile, not capable of being retracted into the shell, covered with long lunate scales in front, and fringed on the outer hinder sides. Toes 5-4, webbed to the claws; claws very strong. Tail elongate, cylindrical. Shell depressed, expanded, thin, covered with thin horny shields. Sternum flat, broad truncated in front and behind, united to the thorax by a bony symphysis, covered with three small additional shields. Axillary and inguinal plates small or none. Sternal shields 12, gular pair very short, broad, band-like. Asia.

The CASKED TERRAPIN. Platysternon megacephalum, *Gray, Pr. Zool. Soc.* 1831, 106. *Illustr. Ind. Zool. t. Dum. et Bib. E. Gen.* ii. 345. *Schlegel, Fauna Jap.* 49.

Deep brown, edge of the shields grooved and slightly radiately striated; head brown rayed, cheeks pale spotted; sternum pale yellowish.

*a.* Stuffed. China. Presented by J. R. Reeves, Esq.

### Fam. III. Chelydes, (Chelididæ).

Head much depressed, broad, covered with a soft skin or hard shields: nostrils elongate, tubular: eyes superior: jaws horny. Neck long, broad, contractile, bent under the side of the shell in repose. Feet webbed. Toes 5-5, deeply webbed, with a lobe between each claw. Claws 5-5, 5-4 or 4-4, elongate, acute. Shell depressed, covered with horny shields; caudal pair always separate. Sternum attached to the thorax by a short bony suture, covered with the outer ends of the pectoral and abdominal plates, and with an additional intergular plate in front. The axillary and inguinal plates very small or none. Pelvis large, united to the vertebra and the hinder lobe of the sternum, leaving a scar. Living in ponds and rivers, in warm climates. Eating flesh; feeding only in the water: swimming with their whole shell under water.

*Synopsis of the Genera.*

A. *Head moderate, flat. Jaws naked. Intergular plate marginal.*

a. *Toes* 5-5. *Head shielded.*

1. Sternotherus. Front lobe of the sternum mobile, with a long internal process on each side.
2. Pelomedusa. Front lobe of the sternum fixed.

b. *Toes* 5-4. *Head with a thin skin or subshielded.*

3. Hydraspis. Shell depressed, thin, light, sides revolute: front edge of thorax and sternum dilated.
4. Chelymys. Shell convex, very solid, strengthened with two compressed diverging bony folds in front, sides revolute.
5. Phrynops. Shell rather depressed, light, sides expanded; hinder lobe of the sternum narrowed.

B. *Head large or very large.*

c. *Toes* 4-4. *Head flat, depressed. Jaws naked. Chin not bearded.*

6. Chelodina. Intergular plate intermarginal: nuchal plate small.
7. Hydromedusa. Intergular plate marginal: nuchal plate intermarginal large, like the vertebral.

d. *Toes* 5-4. *Head flat, much depressed. Jaws covered with fleshy lips: chin bearded: intergular plate marginal.*

8. Chelys.

d. *Toes* 5-4. *Head convex, rounded, covered with hard shields: eyes lateral. Jaws naked.*

9. Peltocephalus. Head subquadrangular: upper jaw hooked. Feet slightly webbed

Podocnemis. Head sub-depressed, with a groove in front: upper jaw slightly arched. Feet broadly webbed.

1. STERNOTHERUS. Pelusios, *Fitz.*

Shell roundish, rather convex, side plates narrow, front one very short and square. Nuchal plate none. Sternum broad, front lobe rounded before, moveable, and furnished on each side of its hinder edge with an internal bony process; hinder lobe bifid, with an internal star. Intergular plate marginal between the gular. Jaws naked. Toes 5-5.

The BLACK STERNOTHERUS. Sternotherus niger, *Dum. et Bib. E. Gen.* ii. 397, *t.* 20, *f.* 1.

Shell oval, short, swollen, narrower in front, deep, black: muzzle elongate; upper jaw hooked, covering the lower; head with 2 large parietal, a long fronto-nasal, and moderate frontal shields.

Inhab. Madagascar? Mus. Paris.

The BLACKISH STERNOTHERUS. Sternotherus subniger, *Gray, Syn.* 38. Testudo subniger, *Lacep. Q. O.* i. 175, *t.* 13. *Latr. R.* i. 89, *f.* 1. *Daud. Rept.* ii. 197. *Schweig.* i. 315, *n.* 40. Terrapene nigricans, *Merrem, Tent.* 28. *Dum. et Bib. E. Gen.* ii. 399. Emys Couro, var. *Schlegel, F. Jap.* 64.

Vertebral plates square, as long as broad, the fourth broader than long: sternum contracted: muzzle rounded.

*a.* Animal dry, shell worn. Africa.

The NATAL STERNOTHERUS. Sternotherus castaneus, *Gray, Syn. R.* 38. *Dum. et Bib. E. G.* ii. 401. Emys c. *Schweig. Prod.* 324, *n.* 38. E. Couro, var. *Schlegel, F. Jap.* 64. Test. subnigra, *β. Daud. R.* ii. 198. S. Leachianus, *Bell, Z. Journ.* ii. *t.* 14, (young?). S. sinuatus, *A. Smith, Illust. Zool. S. Afric. t.* 1, ♂.

Vertebral plates broad, nearly square, nearly as long as broad, the fourth 6-sided, longer than broad.

*a, b.* Adult, stuffed, 8½ inches. Port Natal. From Dr. Krauss' collection.

LORD DERBY'S STERNOTHERUS. Sternotherus Derbianus.

Shell oblong, convex, rounded; vertebral shields narrow, 6-sided, much longer than broad, the last subtriangular: head broad, the parietal and vertical plates united into one; muzzle bluntly rounded; the sternum broad, with the hinder portion scarcely contracted in front, the front much rounded; the central gular plate broad ovate, angular behind.

a. Adult stuffed. W. Africa, Sierra Leone? Gambia. Presented by the Earl of Derby.

2. PELOMEDUSA, *Wagler.*

Head much depressed, shielded with two narrow frontal shields, separated by a groove, a large vertebral shield, and a large cheek

shield on each side. Chin 2-bearded. Jaws exposed. Neck broad. Feet quite retractile. Toes 5-5, expanded, webbed to the tips, with a large rounded lobe between each claw. Claws 5-5, sharp. Shell depressed, sides narrow, revolute. Nuchal none. Sternum solid, rather narrow, truncated in front, narrower and nicked behind. Intergular shield small, marginal. Africa.

** Pectoral shields small, triangular, short; humeral large; occiput with small shields.* Pentonyx, *Ruppell.*

The GEHAFIÆ. Pelomedusa Gehafiæ. Pentonyx Gehafiæ, *Ruppell, Mus. Frank.* 1831.

Olive: shields radiately and concentrically grooved: beneath pale yellowish white.

*a.* Stuffed, adult. Abyssinia. From Dr. Ruppell's collection.

*** Pectoral and humeral shields equal, oblong, four-sided, transverse, occiput largely shielded.* Pelomedusa, *Wagler.*

The REDDISH PELOMEDUSA. Pelomedusa subrufa. Testudo s. *Lacep. Q. O.* i. 173, *t.* 12. *Encyc. Méth. t.* 6, *f.* 3. *Latr. R.* i. 120. *Daud. R.* ii. 132. *Schweig. Prod.* 308, 26. *Gray, Syn.* 40. T. scabra, *Retz.* Testudo badia, *Donnd. Zool. Beytr.* iii. 34. *Bechst.* T. galeata, *Schoepf. Test.* 12, *t.* 3, *f.* 1, (young). *Latr. R.* i. 152. *Shaw, Zool.* iii. 57, *t.* 12, *f.* 3. *Daud. R.* ii. 136. *Schweig.* 307, *n.* 25. *Schlegel, F. Jap.* 44. *Wagler, Syst.* 132, *t.* 2, *f.* 36, 44. Emys olivacea, *Schweig. Prod.* 307, 24, (young). Pentonyx capensis, *Dum. et Bib. E. G.* ii. 390, *t.* 19, *f.* 21. T. senegalensis, *Daud.*

Shell brown olive, oval oblong, (back impressed on each side of the vertebral line when full grown); first vertebral plates short, very broad in front.

*a.* Adult, stuffed, plates worn smooth. Cape of Good Hope. Presented by J. E. Gray, Esq.

*b.* Young, animal dry, (only two legs). Cape of Good Hope.

*c—e.* Very young. Cape of Good Hope. Presented by J. S. Bowerbank, Esq.

ADANSON'S PELOMEDUSA. Pelomedusa? Adansonii. Emys Adamsonii, *Schweig. Prod.* 308, 27. *Gray, Syn.* 40. *Dum. et Bib. E. Gen.* ii. 394.

Shell oval, fulvous, brown-spotted, back strongly keeled; front vertebral plates much longer than broad.

Inhab. Cape de Verde. Mus. Paris.

### *β.* HYDRASPIS, *Bell.*

Platemys, Rhinemys, *Wagler.* Platemys part, *Dum. et Bib.* Chelodina part, *Fitz.*

Head moderate, flattened, covered with a thin skin, often di-

vided into subregular plates, especially on the temples. Jaws naked, slender, weak. Chin 2-bearded. Hind legs with a compressed scaly tubercle on the outer side, above the foot. Toes webbed. Claws 5-4, acute. Shell oblong, depressed, back flattish, lateral margin revolute. Nuchal plate distinct, anterior vertebral plate larger than the other, often very broad. Sternum solid, not mobile; lobes broad, the front one rounded. Tropical America.

The Doubly Keeled Hydraspis. Hydraspis planiceps, *Gray, Syn. R.* 40. Testudo planiceps, or platycephala, *Schneid. Berol. Naturf.* iv. *t.* 16. *Schoepf. T.* 115, *t.* 27. *Schweig. Prod.* 303, *n.* 16. *Wagler, Sys.* 135. E. platycephala, *Schlegel, F. Jap.* 45. T. Martinella, *Daud. R.* viii. 344. *Dum. et Bib. E. Gen.* ii. 407. Emys canaliculata, *Spix, Bras, t.* 8, *f.* 1, 2. *Wagler, Syst. t.* 4, *f.* 1, 25. ? E. discolor, *Thunb. MS. Schweig.* ? E. Schoepfii, *Weigmann.*

Shell quadrangular, fulvous, marked on each side of the disk with a large black spot; back with two rounded keels, separated by a broad groove; costal plates not arched; sternum black edged with yellow; head covered with a thin single plate.

Inhab. Brazils. Mus. Bell.

The Rayed Hydraspis. Hydraspis radiolata, *Gray, Syn. R.* 44. Emys radiolata, *Mikan, Delect. t.* —— *Neuwied, Abbild. t.* — *Wagler, Syst.* 165. *Dum. et Bib. E. Gen.* ii. 412. Hydraspis planiceps, jun. *Gray, Syn. R.* 40. E. platycephala var. *Schlegel, F. Jap.* var. 47.

Shell oval-oblong, narrowed and rounded in front, rather obtusely angular behind, keelless, brown, varied with reddish; shields concentrically and radiately striated; head covered with numerous scales; neck tubercular.

Inhab. Brazils. Mus. Bell.

The Grooved Hydraspis. Hydraspis Spixii. Platemys Spixii, *Dum. et Bib. E. Gen.* ii. 409. Emys depressa, *Spix, Bras.* 4, *t.* 3, *f.* 1, 2, (not Neuweid).

Shell oval oblong, convex, middle of the back flattened, with a narrow central groove; costal plates arched; sternum black; head with numerous small plates; chin 2-bearded; neck with conical acute spines; the two outer toes of the fore feet small, with short rudimentary claws; the lower part of the outer side of the front edge of the hind legs with a compressed tubercle, formed of three compressed scales.

*a.* Shell and animal. From M. Clausen's collection.

The Depressed Hydraspis. Hydraspis depressa, *Gray, Syn.* 41. Emys depressa, *Merrem, Tent.* 22, (not Spix). *Neuwied, Abbild. t.* — *Schinz. Rept.* 43, *t.* 4. Platemys Neuwiedii, *Dum. et Bib. E. Gen.* ii. 425. E. Lyræ, *Reuse.* E. platycephala, var. *Schlegel, F. Jap.* 47.

Shell oval oblong, rounded at each end, not keeled, olive brown, black-rayed, hinder margin yellow; blackish gray, side of the head with three black rays, throat whitish, black-spotted.

*a.* Young, in spirits. S. America. Presented by Dr. Edw. Ruppell.

The Black Hydraspis. Hydraspis gibba, Emys gibba, *Schweig. Prod.* 299, *n.* 7. *Wagler, Syst.* 135. *Dum. et Bib. E. G.* ii. 416, *t.* 20, *f.* 2. Hyd. cayennensis, *β. Gray, Syn.* 42.

Shell black, ovoid; discal plates slightly striated, the three last vertebral tubercularly keeled behind; costals flat; sternum brown, varied with yellow on the edge; head covered with many small plates.

*a.* Animal and shell. "Madagascar?" From M. Parzudaski's collection.

Schweiger's Hydraspis. Hydraspis nasuta. Emys nasuta, *Schweig. Prod.* 298, *n.* 4. Platemys Schweigerii, *Dum. et Bib. E. Gen.* ii. 435. E. platycephala, var. *Schlegel, F. Jap.* 46.

Shell much depressed, keeled, waved, fulvous, hinder edge yellow; sternum brown, with the sides and ends yellow; head depressed, thick, covered with numerous small plates.

Inhab. S. America.

Wagler's Hydraspis. Hydraspis Wagleri. Platemys Wagleri, *Dum. et Bib. E. G.* ii. 422.

Shell oval, much elongated, narrowed at each end, keelless, rounded in front and truncated behind, reddish brown; shields smooth; the first vertebral protuberant, 3-sided; sternum yellow; head flat, smooth; temple with small scales.

Inhab. Brazil. Mus. Paris, (1 specimen).

Gaudichaud's Hydraspis. Hydraspis Gaudichaudii. Platemys Gaudichaudii, *Dum. et Bib. E. G.* ii. 427.

Shell oval, oblong, truncated in front, rounded behind, keelless, brown marbled with black, and with yellow spots on the outer edge of each marginal shield; sternum black in the middle, orange on the sides; head large; under part of the neck orange, marbled with brown.

Inhabits Brazils. Mus. Paris. (one very young specimen).

St. Hilaire's Hydraspis. Hydraspis Hilairii. Platemys Hilairii, *Dum. et Bib. E. G.* ii. 429.

Shell rather convex, pale brown, short, oval, narrowed at each end; shields smooth; vertebral broad, each furnished with a keel-like tubercle; sternum yellow, black-spotted; head depressed, sub-squamose, muzzle short, round.

Inhab. Brazils. Mus. Paris.

The Broad Hydraspis. Hydraspis? lata, *Bell, MS. Gray, Syn. R.* 77.

Shell suborbicular, depressed, black; head and neck when fresh, orange-spotted.

Inhab. Brazils? Mus. Zool. Soc.

The Allied Hydraspis. Hydraspis? affinis, *Gray, D. C.* 22, *n.* 10.

Shell brown, obscurely black-rayed, margin strongly reflexed over the hinder feet; two last vertebral shields with an elevated compressed conical ridge; neck long, black, with a yellow line on each side, beneath yellowish.

Inhab. Brazils. Mus. Berlin.

4. Phrynops. Phrynops and Rhinemys, *Wagler.*

Head moderate rounded, covered with a thin skin, often divided into small subregular plates, especially on the temples. Jaws naked. Chin 2-bearded. Toes webbed. Claws 5-4, acute. Shell ovate, rather convex, solid, the sides and hinder margin expanded. Nuchal plate distinct; anterior vertebral moderate. Sternum solid, not mobile, the hinder lobe narrowed behind. Tropical America.

Geoffroy's Phrynops. Phrynops Geoffroyana, *Wagler, Sys.* 135, *t.* 5, *f.* 48—54. *Icon. t.* 26. Emys Geoffroeana, *Schweig. Prod.* 302, 15. *Dum. et Bib. E. G.* ii. 418. Emys viridis, *Spix, Braz.* 3, *t.* 2, *f.* 4, *t.* 3, *f.* 1. *Gray, Syn.* 41. Hydraspis rufipes, adult, *Kaup.* E. platycephala, var. *Schlegel, F. Jap.* 47.

Shell oval, oblong (of the same width at the two ends), rounded before, obtusely angular and nicked behind; vertebral plates forming a gutter on each side of the tubercular keel; body yellowish, spotted and rayed with brown, beneath yellow; head with small scales; occipital and superciliary shields elongated.

Inhab. S. America, Buenos Ayres. Mus. Paris, two specimens, young and old.

The Red-footed Phrynops. Phrynops rufipes. Emys rufipes, *Spix, Braz.* 7, *t.* 6, *f.* 1, 2. *Wagler, Syst.* 134, *t.* 3, *f.* 43, 45. *Gray, Syn.* 41. *Dum. et Bib. E. G.* ii. 435. Emys platycephala, var. *Schlegel, F. Jap.* 46.

Shell brown, oval, truncated in front, angular behind; back keeled; sternum narrower behind; neck and members reddish, with an oblong red spot above the ear; head smooth, with small scales on the temples.

Inhab. Brazils. Mus. Munich.

Bell's Phrynops. Phrynops Bellii.

Shell (young) very depressed, very obscurely keeled, brown; middle of the hinder edge of vertebral shield rather elevated, mar-

gin very much expanded, deeply serrated behind; beneath, yellow brown-rayed and varied; sternum narrow, rather broader in front, attenuated and deeply acutely lobed behind; head brown, moderate, with two subtrigonal hard occipital shields, and small shields on the temples; chin 2-bearded; neck warty, yellow beneath, with a yellow streak on each side, from the angle of the mouth and under the ear; claws elongate, acute, compressed.

Inhab. ——— ? Mus. Bell. a young specimen.

Milius's Phrynops. Phrynops? Miliusii. Platemys Miliusii, *Dum. et Bib. E. G.* ii. 431. Emys stenops, *Spix, Braz.* 12, *t.* 9, *f.* 3, 4 ? very young. E. platycephala, var. *Schlegel, F. Jap.* 47

Shell oval, narrow and rounded in front, obtusely angular behind, keelless, black-brown, shields smooth; sternum brown, yellowish washed on the edge and middle line; abdominal plates large; head broad, thick, smooth; temple with small scales.

Inhab. Cayenne. Mus. Paris.

### 5. Chelymys.

Head and temple covered with a smooth skin. Jaws naked, horny, strong. Chin not bearded. Shell convex, solid, expanded behind, side edges narrow, rather revolute. Nuchal shield distinct. Front cavity much contracted by two rather diverging septa, only leaving a space half the width of the outer opening. Vertebral column sharply keeled within. Sternum solid, narrow, with broad and shelving side wings, and a broad rounded notch behind. Claws 5-4, acute. Australia.

The Victoria Chelymys. Chelymys Macquaria. Emys Macquaria, *Cuv. R. A.* ii. 11. *Gray, Syn.* 40. *Grey, Trav. W. Aust.* ii. 448. *Dum. et Bib. E. G.* ii. 438. Hydraspis Victoriæ, *Gray, Z. M.* 55. H. australis, *Gray, Grey, Trav. W. Austr.* ii. 445, *t.* 6.

Shell ovate, convex, blackish brown, marbled with grey and rather rugose above, beneath convex, yellow olive, with slight, impressed, narrow, netted grooves; vertebral plates nearly square, the fourth 6-sided, elongate; the marginal plates rather narrow in front, broader and slightly bent upon the sides, dilated, rather produced and leaving two or three notches over the tail behind; sternum yellow, rather convex.

*a*. Shell only, adult, back with a very narrow, slightly sunk, interrupted vertebral line; shield partly rugose; vertebral plates rather longer than broad. Victoria River, N.W. coast of Australia. Presented by Capt. William Chambers, R.N.

Emys Macquaria, *Dum. et Bib.* H. Victoriæ, *Gray.*

*b*. Animal and shell, younger: shields smooth, vertebral rather broader than long. Australia. Presented by J. Gould, Esq.

H. australis, *Gray, Grey, Journ. W. Aust.* ii. 445, *t.* 6.

6. Chelodina, *Gray*. Chelodina part, *Dum et Bib.*

Head elongate. Neck very long, covered with a thin skin. Jaws exposed. Claws 4-4. Shell depressed, broad, shields thin, smooth. Sternum very broad, rounded in front, nicked behind. Intergular plate large, long, 6-sided, placed in the angle between the gular and humeral plates. Nuchal plate distinct. Australia.

The Yellow Chelodine. Chelodina longicollis, *Gray, Syn. R.* 39, *t.* 6, *f.* 2. *Griffith, An. K. t.— Grey, Trav. Austr.* ii. 445. Testudo longicollis, *Shaw, N. Holl.* 19, *t.* 7, *and Gen. Zool.* iii. 62, *t.* 6. *Lacep. Ann. Mus.* iv. 189. *Schweig. Prodr.* 309, *n.* 28. *Schlegel, F. Jap.* 43. *Bell, Zool. Journ.* iii. 512. Chel. Novæ Hollandiæ, *Dum. et Bib. E. G.* ii. 445. Emys porphyrea, *Daud, Rep.* ii. 142.

Shell oblong, depressed, brown; first vertebral shield elongate; the second and eleventh marginal shields with their front edge opposite the suture of the costal shields; sternum flattish, deeply nicked behind, yellow, shields black-edged.

*a.* Animal dry, depressed, oblong. Australia. Presented by Sir Joseph Banks. The specn. described by Shaw, Schweiger &c.
*b.* Stuffed, more ovate and convex, 7 inches by 6. Australia. Presented by J. Gould, Esq.

The Oblong Chelodine. Chelodina oblonga, *Gray in Grey, Tr. Aust.* ii. 446, *t.* 7.

Shell oblong, rather contracted in front, with a broad impressed vertebral groove, olive brown, with irregular anastomosing lines, beneath yellowish; marginal plates longer than broad, second larger than the first or third, and rather angularly produced in the middle of the inner edge, which is opposite the suture of the costal plates; sternum high, flat, strongly and sharply keeled on the sides; neck warty, very thick.

*a.* Adult, stuffed. W. Australia. Presented by J. Gould, Esq. The specimen figured.
*b.* Adult, stuffed. Port Essington. Presented by Capt. W. Chambers, R.N.
*c.* Very young, in spirits; the body scarcely larger than the head, shell not solidified. W. coast of Australia. Presented by John Richardson, M.D.

7. Hydromedusa, *Wagler*. Chelodina part, *Dum. et Bib.*

Head elongate, depressed, covered with a soft dotted skin. Jaws narrow, exposed. Lips rather dilated and fleshy at the angle of the mouth. Chin not bearded. Neck warty. Claws 4-4; outer toes on each foot small, clawless. Tail elongate. Shell oblong, depressed, expanded in front, slightly revolute on the sides. Nuchal plate large behind the marginal plate like a sixth vertebral. Intergular plate large, long, marginal. Tropical America.

Prince Maximilian's Hydromedusa. Hydromedusa Maximiliana, *Wagler*, *Sys.* 135, *t.* 3, *f.* 35, 42. *Peters*, *Muller*, *Arch. Anat. et Phys.* 1839, *t.* 14, skeleton. Emys M. *Mikans*, *Delect. t. Dum. et Bib. E. Gen.* ii. 449. *Gray*, *Syn.* 42.

Shell oval, entire, rounded in front, rather angular behind, pale brown, black spotted; nuchal plate as large as the first vertebral, the fourth costal and two last dorsal shields, protuberant; forehead flat; throat yellow, brown marbled.

*a*, *b*. Half grown and young, in spirits. Brazils. From M. P. Clausen's collections.

The Yellow-lipped Hydromedusa. Hydromedusa flavilabris. Chelodina flavilabris, *Dum. et Bib. E. G.* ii. 446.

Shell elongate, oval, entire, rounded in front, rather angular behind; nuchal plate rather narrower than the first vertebral; forehead convex; jaws bright yellow.

Inhab. Brazils. Mus. Paris, (1 specimen).

### 8. Chelys, *Daud.* Matamata, *Merrem.*

Head flat, broad, fringed with warty appendages. Eyes small. Nose elongated into a tubular proboscis. Mouth roundish. Jaws covered with soft lips, lower jaw elevated behind. Tongue-bone very complicated, (*Cuv. Oss. Foss.* v. *t.* 1.). Neck thick, flat, long, bearded at each side. Legs scaly. Tail short, warty. Shell ovate, convex, broader before, acutely 3-keeled, flattened in the middle of the back. Shields thin, angularly gibbous. Sternum narrow, broader and rounded in front, narrower and bifid behind. Intergular plate marginal. South America.

The Matamata. Chelys Matamata, *Gray*, *Syn.* 431. *Dum. et Bib. E. G.* ii. 455. Testudo Raparara, *Ferm. H. N. A. Equin.* 51. Test. fimbriata, *Schn. Schildk*, 349. *Gmel. S. N.* i. 1043. *Schoepf. Test.* 97, *t.* 21. *Shaw*, *Zool.* iii. 70, *t.* 18. *Schweig. Prod.* 294. *Spix*, *Braz. t.* 11. *Wagler*, 134, *t.* 3, *f.* 4, 24. *Merrem*, *T.* 21. T. Matamata, *Brug. Jour. H. N.* 1792, 253, *t.* 13. *Latr. R.* i. 9, *t.* 4, *f.* 1. *Schlegel*, *F. Jap.* 41. *Daud. R.* ii. 86, *t.* 20, *f.* 1.

Shell oblong, shields elevated, acute, forming three keels.

*a*, *b*. Adult, stuffed. S. America.

### 9. Peltocephalus, *Dum. et Bib.*

Head large, subquadrangular, pyramidical, covered with six large, thick, rather imbricate plates. Jaws naked, very strong, hooked, toothless. Eyes lateral. Feet slightly webbed, with two large scales at the claws. Claws straight, strong. Tail clawed. Shell ovate, convex. Nuchal plate none. Sternum solid.

The Tracaxa. Peltocephalus Tracaxa, *Dum. et Bib. E. G.* ii. 378, *t.* 18, *f.* 2. Emys T. *Spix, Braz.* 6, *t.* 5. *Wagler, Syst.* 135. Emys macrocephala, *Spix. Braz.* 5, *t.* 4, (young).

Shell ovate, subsemicylindrical, smooth, entire, blackish brown.

*a.* Adult, stuffed. S. America.

### 10. Podocnemis, *Wagler.*

Head rather depressed, covered with flat shields, with a deep groove on the forehead. Chin 2-bearded. Jaws naked, slightly arched, toothless. Legs broadly webbed, the hinder with two broad thin scales at each claw. Tail short, not clawed. Shell rather solid. Nuchal plate none. Sternum broad, not mobile.

The Broad Podocnemis. Podocnemis expansa, *Wagler, Syst.* 135, *t.* 4, *f.* 1—31. *Dum. et Bib. E. Gen.* ii. 283, *t.* 19, *f.* 1. Emys Amazonica, *Spix, Braz.* i. *t.* 1, 2, *f.* 1, 2. *Schweig. Prod.* 299, *n.* 8. *Schlegel, F. Jap.* 48. *Gray, Syn. R.* 41. Test. Arrace, *Humb. Pers. Nar.* iv. 482?

Shell oval, entire, keelless, very depressed when adult, tectiform when young, much and horizontally expanded over the hind legs.

Inhab. Cayenne. Mus. Paris.

The Cayenne Podocnemis. Podocnemis Dumeriliana, *Wagler, Syst.* 135. *Dum. et Bib. E. G.* ii. 387. Emys Dumeriliana, *Schweig. Prod.* 300, *n.* 9. *Schlegel, F. Jap.* 48. *Gray, Syn.* 42. E. Cayennensis, *Schweig. Prod.* 298, *n.* 6, (young). E. erythrocephala, *Spix, Bras. t.* 7, (young).

Shell oval, convex, swollen, nicked in front, brown, varied with black; the second and third vertebral plate keeled; sternum yellowish, under side of marginal plates with a black spot.

Inhab. Brazils. Mus. Paris.

There is in the British Museum a fossil species of this family from Sheppey, peculiar for having a flat sternum, round at each end, and having the sterno-costal suture covered with several additional plates (like *Platysternon* amongst the *Emydidæ*). I have long since named it after my excellent friend and former superior, and now colleague, *Meyasternon Kœniyii.*

## Fam. IV. Soft Turtles, (Trionycidæ).

Head flattened, ovate: eyes small, superior: jaws horny, covered with dependant fleshy lips: chin not bearded: nostrils elongated into a thin cylindrical trunk. Neck long, contractile. Feet short, strong. Toes 5-5, short, expanded, strongly webbed, two outer clawless: claws 3-3. Tail short, conical, simple. Shell covered with a hard cartilaginous skin, usually expanded and flexible on the edge, the ribs only united together and to the vertebræ above, separate below. Sternum formed of a ring of bones, covered with a continuous skin, and in the adults furnished with rough callosities on the prominent part. Pelvis only attached to the vertebræ. Living in rivers and lakes in warm climates, eating flesh, and rarely vegetables. Eggs spherical.

The ribs become united together for a greater length, and the sternal callosities appear and increase in size as the animal increases in age, hence they do not afford specific, much less generic characters.

### *Synopsis of the Genera.*

A. *Sternum broad, with valves over the feet. The margin of the shield supported by bones.*

1. Emyda. Head moderate, sternal callosities 5.

B. *Sternum narrow at each end. The margin of the shield expanded, flexible, thin. Sternal callosities* 4.

2. Tyrse. Head moderate, ovate, narrow in front: lips thin. Ribs 8 pair, forming a disk with the vertebræ when young.

3. Dogania. Head very large, dilated behind, narrow in front: lips thin. Ribs 8 pair, not united in a solid disk until late in life.

4. Chitra. Head dilated behind, broad and short in front: lips very large, swollen. Ribs 8 pair.

5. Trionyx. Head moderate, ovate, narrow in front. Ribs 7 pair.

### 1. Emyda, *Gray*. Cryptopus, *Dum. et Bib.*

Head moderate, ovate, narrow in front. Lips thin. Margin of the shell supported with a series of bones. Sternum broad, rounded before and behind, with a moveable valve over each foot. Sternal callosities (of adult) 5.

The Bungoma. Emyda punctata, *Gray, Syn. Rept.* 50. *Ill. Ind. Zool.* ii. *t.* 62, young. *Bell, Testud. t.* Testudo punctata, *Lacep. t.* 7. *f.* 1. Test. granosa, *Schoepf. Test.* 127, *t.* 30, A, B.

*Schweig. Prod.* 288. *Wagler, Syst.* 134, *t.* 2, *f.* 2, 33. *Gray, Ind. Zool.* ii. *t.* 64. *Schlegel, F. Jap.* 35, *t.* 5, *f.* 4. *Dum. et Bib. E. G.* ii. 504. Testudo scabra, *Latr. Rept.* i. 194. Test. Dura, *B. Hamilton, Icon. ined. n.* Test. granulata, *Shaw, Zool.* iii. 68, *t.* 14, *f.* 1. *Daud. R.* ii. 81, *t.* 19, *f.* 2. Trionyx Coromandelicus, *Geoff. Ann. Mus.* xiv. 16, *t.* 5. *f.* 1.

Shell oval, convex, granular, green (young with eyed spots); head with two orange spots on the occiput, (young with a yellow streak for each eye, and the nape yellow-spotted).

*a*—*c*. Animal and shell, stuffed, adult. India. From M. Piquot's collection.
*d*, *e*. Shell only. India. From M. Piquot's collection.
*f*, *g*. In spirits, young. India. From M. Piquot's collection.
*h*. Stuffed, young. From the Museum of the Bengal Society.
*i*. Upper shield only. Presented by Gen. Th. Hardwicke.

The African Bungoma. Emyda Senegalensis. Cryptopus S. *Dum. et Bib. E. G.* ii. 304.

Back, head and neck (of young) grey, with minute white spots; sternum blackish, edged with dirty white.

Inhab. "Senegal." Mus. Paris.

### 2. Tyrse.

Head moderate, ovate. Muzzle conical. Lips moderate. Margin of the shell flexible. Ribs 8-8. Sternum narrow at each end. Sternal callosities 4. Episternal bone diverging, forming a V.

The Kaarey. Tyrse Gangetica. Trionyx gangeticus, *Cuv. R. A.* ii. 16. *Guérin, Icon. t.* 1, *f.* 6, (young). *Schlegel, F. Japon.* 35. *Cuv. Oss. Fos.* iii. 222, (adult). *Wagler, Syst. t.* 2, *f.* 12—18. T. stellatus, var. Japon. *Schlegel, F. Jap. t.* 5, *f.* 7? T. Hurum, *Gray, Illust. Ind. Zool. t.* 1. *Syn. Rept. t.* 10. *B. Hamilton, Icon. ined. n.* 13. Gymnopus Duvaucelii, *Dum. et Bib. E. G.* ii. 487. Testudo Chin, *B. Hamilton, Icon. ined. n.* copied *Gray, Syn. R.* 47, *t.* 10. Test. ocellatus, *B. Hamilton, Icon. ined. n.* 14. *Gray, Illust. Ind. Zool. t.* 7. *Dum. et Bib. E. G.* ii. 189, young.

Olive, vermiculated with dark brown (when young with four or five large eyed spots); head olive, white-dotted, with a yellow spot (white in spirits) behind each eye, at the angle of the mouth and on each side of the chin, and one on each side of the neck below the cheek.

*a*—*d*. In spirits, young, 4 inches, back with 4 black spots. India.
*e*. In spirits, young, 4 inches, back with 4 large and 2 small posterior black spots. India.

The Boulousse. Tyrse Javanica. Trionyx Javanicus, *Geoff. Ann. Mus.* xiv. 15, *t.* 3. *Schweig.* 287. *Gray, Syn. R.* 48. *Illust. Ind. Zool. t.* *t.* *f.* 1, 2. *Dum. et Bib. E. G.* ii. 493.

*Wagler, Syst. t.* 2, *f.* 1—11. Test. Gataghol, *B. Hamilton, Icon. ined. n.* 15? cop. *Gray.* Test. rostrata, *Thunb. N. Act. Suec.* viii. 179, *t.* 7, *f.* 2, 3. *Schoepf.* 93, *t.* 20. *Daud. Rept.* ii. 77, (young). Test. cartilaginea, *Bodd. Berl. Naturf.* ii. 263. Test. Boddaertii, *Schneid. Scheld. t.* 1, *f.* 1, 2. T. membranacea, *Blumenb, Schned. t.* 2. Tri. stellatus, *Geoff. Ann. Mus.* xiv. 13.

The front and hinder edge of the dorsal disk tubercular; olive green, crown of the head with one central and two radiating black lines.

*a.* In spirits, half grown? back black-eyed, 5½ inches. India.
*b, c.* In spirits, young, not eyed. India.
*d.* Stuffed, half grown, back with irregular rugose ridges. India, Deccan. Presented by Colonel Sykes, F.R.S.
*e, f.* In spirits, ? very young, not good state. China. Presented by W. Baird, M.D.

The Eyed Boulousse. Tyrse perocellata. Trionyx perocellatus, *Cantor.* T. tuberculatus, *Cantor.* T. stellatus, var. Javan. *Schlegel, F. Japon. t.* 5, *f*, 6?? *t.* 7, *f.* 1, 2.

Back with six obscure spots; head and neck olive; lip and chin with small white spots.

*a, b.* In spirits, half grown. Canton, China. Presented by the Hon. East India Company, from Dr. Cantor's collection.
*c.* In spirits, younger, sternum black-spotted. Canton, China. Presented by the Hon. East India Company, from Dr. Cantor's collection.

The Tyrse. Tyrse Nilotica. Trionyx Niloticus, *Gray, Syn.* 46. *Schlegel, F. Jap.* 32. Testudo triunguis, *Forsk.* 9. Trionyx Ægyptiacus, *Geoff. Egypt.* i. 116, *t.* 1. *Guérin, Icon. t.* 1, *f.* 7. *Dum. et Bib. E. G.* ii. 484. T. labiatus, *Bell, Test. t.* from life.

Shell rather convex, vertebral line often depressed; back green spotted with white or yellowish.

*a.* Adult, *b.* Young, stuffed. Egypt. Presented by Turnbull Christie, M.D.
*c.* In spirits, half grown, brown, with small white specks on shields and body, with some series of rather larger specks. W. Africa.

The Eyed Tyrse. Tyrse Argus, *Gray. Lear, Icon. ined. t.*

Olive-black, with numerous pale-edged, narrow, black rings; head and feet marbled with black, with a black-edged yellow streak from the tip of the nose to the ear, inclosing the eye; lips yellow, black-edged; nuchal bone, transverse, separate; sternal callosities 4, hinder ones rather distant.

*a.* Stuffed. West Africa, Sierra Leone? Presented by the Earl of Derby.

The Rafeht. Tvrse Rafeht. Testudo Rafeht, *Oliv. Voy. Pers.* iii. 453, *t.* 41. *Shaw, Misc. t.* 907. T. Euphraticus, *Daud. Rept.* ii. 305. *Geoff. Ann. Mus.* xiv. 17. *Gray, Syn.* 48. *Dum. et Bib. E. G.* ii. 498.

Dull green; tail rather elongate.

Inhab. Tigris and Euphrates. Mus. Zool. Soc.

3. Dogania.

Head large, broad behind. Muzzle elongate, conical. Lips moderate? Dorsal shield flexible on the edge. Ribs 8-8, not united into a solid disk until late in life. Sternum narrow at each end; callosities 2, small? Episternal lines forming a V, but not contiguous at their base. Tail elongate?

The Dogania. Dogania subplana. Trionyx subplanus, *Geoff. Ann. Mus.* xiv. 11, *t.* 5, *f.* 2. *Schweig. Prod.* 289. *Gray, Syn.* 48. *Illust. Ind. Zool. t.* *Schlegel, F. Jap.* 34. Gymnopus s. *Dum. et Bib. E. G.* ii. 497.

Shell flattened; disk varied with yellow, with brown vermiculations; head yellow-varied; tail elongated.

*a.* Dry. India, Bengal? Presented by Gen. Th. Hardwicke.

4. Chitra.

Head very depressed, large, dilated behind. Muzzle very short broad. Lips very thick. Shield flexible on the edge. Ribs 8-8. Vertebral bones distinct, narrow. Sternum narrow at each end. Sternal callosities 4. Episternal lines elongate, far apart, nearly parallel.

The Sewteree. Chitra Indica. Trionyx Indicus, *Gray, Syn. Rept.* 47. T. Ægyptiacus, var. Indicus, *Gray, Illust. Ind. Zool.* i. *t.* 80. Testudo Chitra, *B. Hamilton, Icon. ined.* Gymnopus lineatus, *Dum. et Bib. E. G.* ii. 491.

Shield much depressed, with a longitudinal central depression.

*a.* Adult, stuffed. Philippine Islands. From Mr. Cuming's collection.

*b.* In spirits, very young. Olive, front of shield covered with close round subconic warts; head olive, minutely black-dotted; throat olive, minutely white-dotted. India.

5. Trionyx.

Head rather large, ovate, dilated behind. Muzzle rather elongate, conical. Lips thick. Shield flexible on the edge. Ribs 7-7. Sternum narrow at each end. Sternal callosities 4, nearly confluent. N. America.

The Fierce Trionyx. Trionyx ferox, *Merrem, Tent.* 20. *Gray, Syn.* 43. *Schlegel, F. Jap. t.* 5, *f.* 5, head. Testudo f. *Penn.*

*Phil. Trans.* lxi. 266, *t.* 10, *f.* 5. *Schneid. S.* 330. *Schoepf. t.* 19. *Shaw, Zool.* iii. 64, *t.* 17, *f.* 1. T. Bartramii, *Daud. R.* ii. 74. *LeConte.* Chelys B. *Geoff. Ann. Mus.* xiv. 18. La Molle, *Lacep. Q. O.* i. 137. *t.* 7. Tri. Georgicus, *Geoff. Ann. Mus.* xiv. 7. T. spiniferus, *Lesueur, Mem. Mus.* xv. 258, *t.* 15. *Dum. et Bib. E. G.* ii. 477, *t.* 22, *f.* 1. T. carinatus, *Geoff. Ann. Mus.* xiv. 14, *t.* 4. *Wagler, Syst. t.* 2, *f.* 34, 35. *Merrem, T.* 21, (young). T. Brongniartii, *Schweig. Prod.* i. 288. Fresh-water Turtle, *Garden.* Fierce Turtle, *Shaw.*

Thorax very depressed, with a series of spinous tubercles on the front edge of the back.

*a.* Adult, stuffed. N. America. Presented by the Royal Society. The specimen described and figured by Pennant, (re-stuffed).

The UNARMED TRIONYX. Trionyx muticus, *Lesueur, Mem. Mus.* xv. 257, *t.* 7. *Gray, Syn. R.* 46. *Dum. et Bib. E. G.* ii. 482.

Thorax much depressed, without any spinous tubercles on the front edge.

Inhab. N. America. Mus. Paris.

Fitzinger has divided this family into the genera *Trionyx* (*granosus*), *Aspidonectes* (*Javanicus*), *Platypeltis* (*Brongniartii* and *ferox*), *Pelodiscus* (*Sinensis* and *labiatus*), *Amyda* (*subplanus* and *muticus*), according to the union and separation of the cervical bones and the ribs, and the rugoseness and partial smoothness of the surface of the dorsal plates: but these characters alter with the age of the animals, and they separate nearly allied species, and those coming from the same countries.

## Fam. V. Turtles, (Cheloniadæ).

Head globose, shielded: nostrils rather tubular: jaws horny, naked. Neck short, subretractile. Feet very long, not retractile, compressed, fin-shaped: toes depressed, expanded at the end and often armed with flat claws; front feet longest. Tail short, thick. Shell low, cordate, with a defined bony margin, covered with horny shields or a leathery skin. Ribs free at the end. Sternum ring-like, cartilaginous in the centre, and only united to the thorax by a cartilaginous suture. Seas of torrid and temperate zones, some eating Algæ, as Ch. Midas, which are used for food, and imported as a luxury; others, Mollusca and radiated animals, as Ch. Caretta, only collected for their oil. The horny shields are used for ornamental purposes.

*Synopsis of the Genera.*

1. Sphargis. Shell covered with a coriaceous skin. Claws none.
2. Caretta. Shell covered with 13 horny shields, imbricate and produced behind. Sternum strongly keeled on each side in all ages. First and sometimes the second toes clawed.
3. Caouana. Shell covered with 15 or more horny, truncated, not imbricate shields, which are strongly keeled in the young. First and second toes clawed.
4. Chelonia. Shell covered with 13 truncated, not imbricate, horny shields, smooth in all ages. First finger of each fin clawed.

### 1. Sphargis, *Merrem.* Coriudo, *Fleming.* Dermochelys, *Blainv.* Scytena, *Wagler.*

Shell cordate, depressed, deeply longitudinally grooved, covered with a continuous coriaceous skin. Feet long. Claws replaced by small coriaceous scales.

The Luth. Sphargis coriacea, *Gray, Syn. R.* 51. *Dum. et Bib. E. G.* ii. 560, *t.* 24, *f.* 2. Testudo coriacea, *Linn. S. N.* 350. *Schneid. S.* 312. *Latr. Rept.* i. 58, *t.* 2, *f.* 1. *Shaw, Zool. t.* 18, *f.* 1. *Lacep. Q. O.* i. *t.* 3. Coriudo c. *Harlan, A. H.* 85. T. Lyra, *Donnd.* Sphargis Mercurii, *Rond. t.* 5, *f.* 3. S. mercurialis, *Merrem, Tent.* 19. *Tem. F. Japon.* 6, *t.* 1—3. Dermochelys atlantica, *Lesueur, Cuv. R. A.* ii. 14. Testudo tuberculata, *Penn. Phil. Trans.* lxi. (young). *Schoepf. t.* 29. *Gravenh. Delic. t.* Spinose Tortoise, and tuberculated Tortoise, *Penn.* Coriaceous Turtle, *Shaw.*

Thorax ovate, cordate, sharply 3-keeled.

*a.* Stuffed, adult. England; coast of Dorsetshire.
*b.* Stuffed, adult, (not good state). West Indies; Nevis. Presented by W. Cottle, Esq.
*c.* In spirits, young. Thorax covered with a rather cracked skin, fore feet nearly as long as the shell.
Test. tuberculata, *Gravenh. Delic. t.*— *Phil. Trans.* lxi. *f.* 4, 5. *Schoepf. t.* 29. Dermatochelys porcata, *Wagler, Syst.* 133, *t.* 1, *f.* 1, 23.

2. CAOUANA, *Gray.* Thalassochelys, *Fitz.*

Thorax ovate, cordate, covered with 15 thin, truncated, not imbricated shields, which are keeled in the young. Head large. Jaws slightly curved towards each other at the tip; side of the lower jaws covered with angular plates. Marginal plates 27 (rarely 25). Carnivorous, eating Mollusca and Crustacea.

The additional pair of discal shields occupies the side of the narrow first vertebral shields, the three covering the space occupied by the broad front vertebral shield of *Chelonia.*

The CAOUANNE or Loggerhead. Caouana Caretta. Testudo Caretta, *Linn. S. N.* 351. *Walb. Chelon.* 4, 95. *Schoepf. t.* 16, *t.* 16 B. *Shaw, Zool.* ii. *t.* 23—25. *Schoepf. t.* 17, *f.* 3. T. cephalo, *Schn. Schildk.* 303. *Tem. F. Japon.* 25, *t.* 4, *f.* 1, 2, *t.* 6, *f.* 3. T. Caouana, *Bechst. in Lacep.* i. 110. *Daud. Rept.* ii. 54, *t.* 16, *f.* 2. *Schweig. Prod.* 292. *Wagler, Syst.* 133, *t.* 1, *f.* 1, 23. *Gray, Syn. R.* 53. *Dum. et Bib. E. G.* ii. 544. Ch. virgata, *Wagler, Icon. t.* 29, (not Cuv.) Ch. pelagiorum, *Vallenc. Rept. Morea, t.* 10. Testudo corticata, *Rondel.* T. marina Caouanna, *Ray, Qu.* 257. The loggerhead turtle, *Brown, Jam.* 465. *Catesby, Carol.* ii. 40, *t.* 40. La Caouanne, *Labat, Voy. Amer.* i. 184, 311. *Lacep. Q. O.* i. 96. Test. nasicornis, *Lacep. Edw. Birds, t.* 206. Rhinocerus turtle, *Shaw, Zool. t.* 14, very young.

Claws two on each foot; back convex, rounded, toothed behind; vertebral plates 6-sided, keeled, rather longer than wide; caudal plate squarish, longer than broad, hinder marginal plate rather wider than the rest; costal shields of young keeled above.

*a.* In spirits, half grown. Costal shield keeled above, margin toothed.
*b.* Back shield, half grown animal. Costal shield smooth.
*c.* Adult, stuffed. Back covered with *Chelonobia:* hinder marginal plates less acute, caudal plate elongate, subtriangular. Atlantic Ocean.
*d.* Half grown, stuffed. Hinder marginal plates acute, rather produced, caudal scarcely elongated. Atlantic Ocean.

*e.* Head, very large. Upper jaw with 2 convex ridges, the hinder ones rounded, convex. C. Ruppellii, *Gray, B. M.* India? Presented by Thomas Bell, Esq.

The Long Caouanne. Caouana elongata.

Shell elongate, rather flattened in the middle, convex on the sides, and slightly dilated and flattened upon the side and contracted on the hinder edges; marginal plates 27, last pair much longer; caudal plates square, large, much longer than broad; vertebral plates elongate, 6-sided, half as long again as broad: claws —— ? Head —— ?

*a.* Shell only, adult.

The Olive Caouanne. Caouana olivacea. Chelonia olivacea, *Eschscholtz, Zool. Atl. t.* 3. Ch. caouana, var. *Gray, Syn.* 54. Ch. Dussumierii, *Dum. et Bib. E. G.* ii. 557. Ch. subcarinata, *Rupp. MS. Mus. Francf.?*

Claws one on each foot; marginal shields 27; back flat, sides rather concave, side-edges expanded, slightly bent up; vertebral plates narrow, elongate, longer than wide; caudal plate subtriangular, longer than broad, much larger than the other marginal plates: head moderate.

*a.* In spirits, very young. Without any narrow anterior vertebral plate, (the 2 united ?) Philippine Islands.
*b.* Stuffed, adult. With a narrow anterior vertebral plate.

### 3. Caretta.

Thorax ovate, cordate, covered with 13 thick, horny plates, which are produced and imbricate on their hinder edge. Muzzle elongate, compressed. Jaws with the edge straight, toothless, and the tip slightly recurved, side of lower jaw with a single elongated shield. Sternum keeled on each side.

The Caret. Caretta imbricata. Chelonia imbricata, *Schw. Prod.* 291. *Gray, Syn.* 25, *t.* 7, *f.* 2. *Dum. et Bib. E. G.* ii. 547, *t.* 13, *f.* 2. *Tem. Fauna Jap.* 13, *t.* 5, *f.* 12, *t.* 6, *f.* 4. Testudo imbricata, *Linn. S. N.* 350. *Schn.* 309. *Shaw, Zool.* iii. *t.* 26, 27. *Daud. R.* ii. 39. *Schoepf. t.* 18, A, B. *t.* 17, *f.* 1, young. T. Caretta, *Knorr, D.* ii. 124, *t.* 50. Chelonia multiscutata, *Kuhl, Beytr.* 78, (monstrosity ?) Ch. pseudo Caretta, *Lesson, Voy. Bel.* 302. The scaled tortoise, *Grew, Mus.* 38, *t.* 3, *f.* 4. *Seba*, i. *t.* 80, *f.* 9.

Shell subcordiform, yellow, brown-marbled, back keeled, shelving, strongly toothed behind.

*a, b.* Stuffed, half grown.
*c.* Upper shield only, younger.
*d.* Stuffed, young.
*e.* Lower shield only.
*f.* Stuffed, very young, (wants one fin).

### 4. Chelonia.

Discal shields 13, not imbricate, truncated behind. Muzzle short, rounded. Jaws moderate, upper slightly notched in front, and feebly toothed on the side, lower denticulated, with a single elongate plate upon each side. The front toe of each fin clawed. Feeding on Algæ.

* *The last vertebral bone transverse, broad in front, with the last rib parallel, and arising from the sides of its base, the front edge of the second finger with four scales.*

The Carey. Chelonia virgata, *Schweig. Prod.* 291. *Cuv. R. A.* ii. 41. *Guér. Icon. t.* 1. *f.* 4. *Dum. et Bib. E. G.* ii. 541, (not Wagler). *Sagra, Cuba Rept. t.* 3. Ch. Midas, D. *Gray, Syn.* 52. "Ch. fasciata, *Cuvier*," *Schleg. F. J.* 26. *Schoepf. t.* 16 B. *Bruce, Voy. t.* 42.

Shell short, subtectiform; chesnut, varied with yellow and rayed with brown, sides strongly arched.

*a.* Upper shield only, young. Vertebral shields broader than long. Atlantic Ocean. Presented by W. Eling, Esq.

*b.* Stuffed, adult. Vertebral shield longer than broad. S. America. Chelonia maculosa, *Cuv. R. A.* ii. 13. *Dum. et Bib. E. G.* ii. 544. C. lacrymata, *Cuv. R. A.* ii. 13. C. Midas, var. β. *Gray, Syn. R.* 32. C. marmorata, *Dum. et Bib. E. G.* ii. 546. *t.* 23, *f.* 1. *Shaw. Zool.* ii. 13, *t.* 22, (var.)

*c.* Upper shield only, half grown. Vertebral shields rather longer than broad. S. America?

** *The last vertebral bone narrow, attenuated behind, with the last rib diverging and arising at a distance from its base, the front edge of the second finger with three scales.*

The Green Turtle. Chelonia viridis, *Tem. F. Jap.* 18, *t.* 4, *f.* 4—6, *t.* 6, *f.* 1, 2. Testudo viridis, *Schneid. Schildk.* 309, *t.* 2. Testudo Midas, *Latr. R.* i. 22, *t.* 1, *f.* 1. *Daud.* ii. 10, *t.* 16. *Schoepf. t.* 17, *f.* 2. Chelonia M. *Schweig. Prod.* 291. *Gray, Syn.* 52. *Dum. et Bib. E. G.* ii. 538. Caretta esculenta, *Merrem, Tent.* 18. Test. Japonica, *Thunb.* Test. Thunbergii, *Merrem, Tent.* 19. T. Cepedienne, *Daud. Rept.* ii. 50, *t.* 17, *f.* 1.

Shell subrotundiform, rather elongate, olive green, when dry fulvous, with brown spots; back rounded; vertebral shields hexagonal, nearly as long as broad.

*a, b.* Stuffed, half grown. Brazils.

*c.* Stuffed, half grown; wants some plates. From Dr. Mantell's collection.

*d.* Dry, very young. Margin of the shell and fin white. Ascension Presented by J. R. Reeves, Esq.

*e—h.* In spirits, very young. Ascension. Presented by Capt. Sir Edward Belcher.

*i.* In spirits, very young. Sternal plates 6. Ascension. Presented by Capt. Sir Edward Belcher.

*j.* In spirits, very young. First vertebral plate irregular. Ascension. Presented by Capt. Sir Edw. Belcher.

*k, l.* In spirits, very young. Vertebral plates irregular, 6 or 7. Ascension. Presented by Capt. Sir Edward Belcher.

*m.* In spirits, very young. Costal plates 5-5; last vertebral narrow. Ascension. Presented by Capt. Sir Edward Belcher.

*n, o.* In spirits, very young. Plates normal. Ascension Island. From H.M.S. Chanticleer.

*p, q.* Dry, very young.

*r.* Skull of young, weighed 66 lbs. From Dr. Mantell's collection.

*s.* Head, with the shields. Upper jaw with 2 internal ridges, the inner narrow, even, toothed, the outer most prominent in the middle.

*t, u.* Skulls of adult, weighed 375 lbs. The inner ridge of the upper jaw nearly obliterated. Ascension. Presented by —— Wauds, Esq.

*v.* Skull of adult. Imperfect, discoloured.

## Order IV. EMYDOSAURIANS, (EMYDOSAURI).

Head large, covered with a thin skin: ears linear, closed with 2 valves: gape wide: tongue short: jaws with a single series of conical teeth, inserted in sockets and replaced by teeth formed beneath them, hinder part of the lower jaw produced behind the condyle: nostrils small, anterior: eyes small. Throat with 2 glands. Neck and sides of the body with a wrinkled skin, covered with small tubercular scales. Back with a hard disk, formed of longitudinal series of square, keeled, bony plates, imbedded in the skin; under surface covered with smooth, thin, square plates; back of the neck with 2 groups of bony plates, the first called the nuchal, and the other the cervical plates. Tail compressed, with 2 series of compressed plates above. Vent longitudinal. Legs short; feet webbed; toes 4-5, but only the inner three of each foot clawed. Living in fresh and brackish water in tropical climates. Eating animals which they have killed by drowning.

*Synopsis of the Families.*

1. CROCODILIDÆ. The lower canines fitting into a notch in the edge of the upper jaw.
2. ALLIGATORIDÆ. The lower canines fitting into a pit in the upper jaw.

### Fam. I. CROCODILES, (CROCODILIDÆ).

The lower canines fitting into a notch in the edge of the upper jaw. The hind legs with a fringe of compressed scales behind.

*Synopsis of the Genera.*

* *Teeth all uniform. Nose of the male very large, inflated.*

1. GAVIALIS. Jaws very long, slender, subcylindrical. Cervical and dorsal disks united together.

** *The 9th upper and 11th lower teeth longer, like canines. Nose of both sexes simple.*

2. MECISTOPS. Jaws oblong, slender, depressed. Cervical and dorsal disks united. Hind feet webbed.
3. CROCODILUS. Jaws oblong, depressed. Nuchal, cervical and dorsal disks separated from each other by small scales.

1. GAVIALIS, *Merrem.* Gaviala, *Flem.*
Ramphostoma, *Wagl.*

Jaws very long, subcylindrical, slender, rather dilated and convex at the end. Teeth canines 2, quite anterior, small, lower canines shutting into a nick in the edge of the upper jaw. Feet fringed; toes webbed to the tip. The cervical plates united to, and forming a disk with, the dorsal ones. Males with a large swelling in front of the nostrils. Asia.

The GARIAL or NAKOO. Gavialis Gangeticus, *Gray, Syn.* 56. *Geoff. Mem. Mus.* xii. *Dum. et Bib. E. G.* iii. 134, *t.* 26, *f.* 2. Lacerta Gan. *Gmel, S. N.* i. 1057. *Shaw, Zool.* iii. *t.* 197, *t.* 60. Crocodilus longirostris, *Schild. Am.* 160. *Daud. Rept.* ii. 89. *Cuv. Ann. Mus.* x. *t.* 1, 2. C. acutirostris, *Daud. R.* ii. 293. C. tenuirostris, *Cuv. Ann. Mus.* x. *t.* 1. *Tiedem. Amph. t.* 15. *Wagler, Sys. t.* 7, *f.* 111. *Merrem, Tent.* 38. Le Gavial, *Lacep,* Q. *O.* i. 235, *t.* 15. *Faugas, Mont. S. P.* 235, *t.* 8, 46, 47. The narrow-beaked Crocodile, *Edw. Phil. Trans.* xlix. 639, *t.* 19.

Olive, black-spotted.

*a.* In spirits, young. India. From Dr. Mantell's collection.
*b.* Stuffed, young, length 24 inches. India.
*c.* Stuffed, young. Length 27 inches. India.
*d.* Animal, dry. Length 31 inches. Presented by S. P. Pratt, Esq.
*e.* Stuffed. Length 33 inches. Nepal.
*f.* Stuffed. Length 52 inches. India.
*g.* Skull of adult. Length 29 inches. India. Presented by Capt. Oriel.
*h.* Skull of half-grown animal. Length 18 inches. India. Presented by J. E. Gray, Esq.
*i.* Head of adult. India. Mus. Sloane.

2. MECISTOPS. Gavialis, *Muller.*

Jaws oblong, slender, depressed, flat, without ridges. Teeth unequal, lower canines fitting into a notch in the side of the upper jaw. Feet fringed; toes webbed to the tip. The cervical plates in 3 or 4 cross series, united to the dorsal shield. Males without any swelling in front of the nostrils.

BENNETT'S FALSE GARIAL. Mecistops Bennettii. Crocodilus leptorhynchus, *Bennett, Proc. Zool. Soc.* 1835, 129. C. cataphractus var. *Bennett, P. Z. S.* 1834, 110.

Muzzle elongate, very slender, rather tapering, with a small tubercle on each side over the second canines, which are rather in front of the middle; nuchal shields 2, far apart, small, with some scattered ones; cervical shields 4, in two bands; dorsal shields equal, square, bluntly keeled, the two first small.

*a.* Adult, stuffed. W. Africa, Gambia. Mr. Rendal's collection.

The False Garial. Mecistops cataphractus. Crocodilus cataphractus, *Cuv. Oss. Foss.* v. *t.* 5, *f.* 1, 2. *Gray, S.* 59. *Dum. et Bib. E. G.* iii. 126.

Nuchal shields 6, in two rows, two front far apart, four hinder in a line; cervical shields 10, in pairs, two front large, three hinder pairs smaller.

Inhab. W. Africa, in the River Galbar, near Sierra Leone.

Probably only a var. of the preceding.

Journey's False Garial. Mecistops Journei. Crocodilus intermedius, *Graves, Ann. Sci. Phys.* ii. 248. *Gray, Syn.* 59. C. Journei, *Bory, Dict. C. N. H.* v. 111. *Dum. et Bib. E. G.* iii. 129. C. Gavialis Schlegelii, *Muller, Natur-Geschic. Ost. Ind. t.* 1, 2, *t.* 3, *f.* 1—5.

Jaws elongate, subcylindrical, without any ridges, flat in front; nuchal plates small, 3 pair, far apart; cervical plates 3 pair; dorsal shield furrowed, squarish, with 2 series of lateral ones.

*a.* Very young, in spirits. New Guinea. From the Leyden collection.

### 3. Crocodilus.

Jaws oblong, depressed, tapering, rather dilated at the end. Teeth unequal, lower canines fitting into a notch in the side of the upper jaw. Feet fringed. Toes webbed to the tip. Nuchal and cervical plates forming a disk separated from the dorsal one by small granular scales. The head of the newly-hatched specimens is short, but it gradually elongates, and after a short time attains the form proper to the species, and through the bones becoming more solid by increasing age, they only slightly alter the relative proportions of the different parts; so that the form of the head, taken with the shielding of the back, affords good characters for the determination of the species.

* *Dorsal shields 8-rowed, oblong, longer than broad, subequal, in regular equal series. The small plates on the side in two longitudinal parallel lines. Nuchal shields small or none. Muzzle flat, narrow, with 2 long parallel ridges in front.* Asia. Oopholis.

The Indian Crocodile. Crocodilus porosus, *Schn. Amph.* 159. C. biporcatus, *Cuv. Ann. Mus.* x. *Oss. Foss.* v. 65, *t.* 2, *f.* 8, (not *t.* 1, *f.* 4—13, 18). *Tiedem. Amph.* 72, *t.* 9. *Guérin, Icon. t.* 2, *f.* 1. *Wagler, Amph. Syst.* 140, *t.* 8, *f.* 2. *Gray, Syn.* 58. *Muller, Ost. Ind. Rept. t.* 3, *f.* 6, adult. C. biporcatus raninus, *Muller, O. Ind. Rept. t.* 3, *f.* 8, junior. C. Oopholis, *Schn. Amph.* Champse fissipes, *Wagler, Amph. t.* 17.

Head elongate, narrow, (in the half grown and adult specimens twice as long as the width of the hinder part of the skull; upper

jaw with a long, continued ridge from the front of each eye; nuchal plates small or wanting; forehead square, with nearly parallel sides, half as wide again as the muzzle at the anterior notch; muzzle at the 9th tooth nearly half as wide as the space between the nose and eyes; scales of the back oblong, longitudinal, equal, in 8 rows.

*a*. Stuffed, one-third grown. Length 39 inches. India.
*b*. Half grown. Length 34 inches. India.
*c*, *d*, *h*, *m*, *n*. In spirits, young. Old collection.
*e*, *f*. In spirits, young. India. Presented by Gen. Th. Hardwicke.
*g*. In spirits, young. India. Presented by Capt. Stafford.
*i*—*k*. In spirits, very young. India. Presented by Gen. Th. Hardwicke.
*l*. An egg. India.
*n*. In spirits, young, not good state. Presented by Edward Cook, Esq.
*o*—*q*. Stuffed, young. Length 18 to 20 inches. India. Presented by Gen. Th. Hardwicke.
*r*. Stuffed. Length 54 inches. India.

The LARGE-HEADED INDIAN CROCODILE. Crocodilus bombifrons, *Gray*, *D. C.* 32, *n.* 6, ined.

Face short, oblong, convex, rugose, pitted, without any ribs in front, sides only slightly converging, much swollen behind the notch, half as long again as the head behind, and at the 9th upper tooth as wide as from the back of the nose-hole to the orbit; forehead flat, with nearly parallel sides; nasal hole orbicular; suture of the intermaxillary straight, transverse; nasal hole round, back edge rather behind the middle of the notch of the canines.

*a*. Skull. Length 20 inches. India. Presented by Capt. Oriel.
*b*. Skull. Length 18 inches. India. From the Museum of the Royal Asiatic Society of Bengal.

In the Paris Museum there is a large specimen, not in a very good state, which has been described by Dumeril and Bibron, as an adult of *C. biporcatus*, which appears to belong to this species. It has 6 smallish cervical shields, and 6 series of small oval elongate shields, rather far apart, covering the upper part of the back; the sides are smooth, without any line of smaller shields. It is quite distinct from *C. palustris* of the same size, in having a broader muzzle, and in the size and form of the dorsal shields. It is immediately known from *C. porosus* by the breadth and convexity of the face.

** *Dorsal plates 6-rowed, the middle ones square, the side ones oblong, longer than broad, in equal series, the smaller plates on the sides in two longitudinal and nearly parallel series. Nuchal shields small. Muzzle convex, with 2 short diverging ridges in front.* Tropical America. Palinia.

The Aque Palin, (*Hernand*). Crocodilus rhombifer, *Cuv. Ann. Mus.* xx 51. *Oss. Foss. v. t.* 3, *f.* 1—4. *Tiedem. Amph.* 75, *t.* 10. *Gray, Syn.* 59. *Dum. et Bib. E. G.* iii. 97. *Sagra, H. Cuba, t.* 4.

Nape with small nuchal plates; cervical plates 6, four in the front row and two behind; scales of the sides of the neck and body tuberculose in the middle; the forehead with divergent sides, half as wide again as the muzzle at the front notch; muzzle convex, with two short diverging ridges in front of the eyes, at the 9th tooth one third as wide again as at the anterior notch, and two thirds the width of the space between the eyes and nose; scales of the middle of the back 6-rowed, square, close, of the sides oblong, square, the smaller plates on the sides in 2 short longitudinal series.

*a.* Stuffed, half grown. Cuba. From the Museum of the Jardin des Plantes, Paris. Sent there by M. Sagra.

*** *Dorsal plates square, as broad as long, the lateral dorsal series irregular, scattered. Nuchal and cervical plates variable.—Muzzle narrow, ridgeless; forehead of adult convex.* Tropical America. Motinia.

The American Crocodile. Crocodilus Americanus (Plumieri), *Schneid. Amph.* 167. *Seba*, i. *t.* 106, *f.* 1. C. acutus, *Geoff. Ann. Mus.* ii. 53, *t.* 57, *f.* 1, x. 67. *Cuv. Ann. Mus.* x. *Oss. Fos.* v. *t.* 1, *f.* 3—14, *t.* 2, *f.* 5. *Gray, Syn.* 60. *Dum. et Bib. E. G.* iii. 120. C. biscutatus, *Cuv. Ann. Mus.* x. & *Oss. Foss.* x. *t.* 2, *f.* 6. *Tiedem. Amph. t.* 12. La fouette queue, *Lacep. Hist. Q. O.* i. 240.

Muzzle slender, smooth, without any ridges in front of the eyes, rather swollen, convex, and rounded in the adult; dorsal shield square, 4-rowed; the lateral ones irregular and highest.

*a.* Stuffed, half grown. Length 31 inches. Trop. America. Mr. Warwick's collection.

*b, g.* In spirits, young. Length 12 inches. Dr. Mantell's collection.

*c, d.* In spirits, young. Length 18 inches. Cuba. Presented by W. S. MacLeay, Esq.

*e.* Skull and front part of back of adult. Nuchal shields 2 pair, in an arch; cervical shields 6, in a roundish group with 2 smaller ones between the group and the dorsal shield; forehead very convex. West coast of America. Presented by Capt. Sir Edward Belcher, R.N., C.B.

*f.* Skull of young. From Dr. Mantell's collection.

**** *Dorsal plates square, as broad as long, subequal, the smaller plates on the sides irregular, in two oblique ascending series. Nuchal shields* 4 *or* 6, *distinct. Muzzle triangular, with* 2 *more or less distinct short irregular ridges in front of the orbit.* Crocodilus.

The MARGINED CROCODILE. Crocodilus marginatus, *Geoff. Croc. Egypt.* 165. C. vulgaris var. *Gray, Syn.* i. 58. *Dum. et Bib. E. G.* iii. 110.

Head elongate, oblong, triangular, rather convex, rounded, sides slightly swollen behind the notch, half as long again as the width of the head behind; muzzle at the first notch as wide as the forehead, and at the 9th tooth as wide as two thirds the distance between the eyes and nostrils; forehead deeply concave, with the sides high, prominent and nearly parallel; dorsal plates very strongly keeled.

*a.* Stuffed, adult. Length 9 feet 10 inches. South Africa. Presented by the Earl of Derby.
*b.* Stuffed, adult. Length 15 feet. South Africa.
*c.* Stuffed, adult. Length 14 feet. South Africa.

The EGYPTIAN CROCODILE. Crocodilus vulgaris, *Cuv. Ann. Mus.* x. 40, *t.* 1, *f.* 5—12, *t.* 2, *f.* 7. *Oss. Fos.* v. *t.* 1, *f.* 5, 12, *t.* 2, *f.* 7. *Tiedem. Amph. t.* 8. *Gray, Syn.* 57. *Dum. et Bib. E. G.* iii. 104. Lacerta Crocodilus, *Linn. S. N.* C. Champses, *Bory, Dict. Class. H. N.* v. 108. C. lacunosus, *Geoff.* C. complanatus, *Geoff.*

Head elongate, triangular, flat, smoothish above, narrow, tapering at the sides, nearly twice as long as the width of the head behind; muzzle at the notch nearly two thirds the width of the forehead, at the 9th tooth as wide as half the distance between the eyes and nostrils; forehead flat, with nearly parallel sides.

*a.* Adult, stuffed, bad state. Nuchal plates 6, cervical 8, the 4 in front small. Length 120 inches. N. Africa, Thebes. Presented by Sir Edwin Pearson.
*b.* Adult, stuffed, like *a.* Length 105 inches. N. Africa.
*c.* Half grown, stuffed, like *a.* Length 56 inches. N. Africa. C. vulgaris, *Bibron, MS.*
*d.* Half grown, stuffed. Nuchal plates 4, cervical 8, in 3 bands, hinder pair small. Length 60 inches. N. Africa.
*e, g.* Young, stuffed. Nuchal plates 4, cervical 6, in 2 bands, with a small one on the right side of the front. Length 40-41 inches. N. Africa?
*f.* Young, stuffed. Nuchal plates 4, cervical 8. Length 40 inches. N. Africa.
*h.* Young, stuffed. Nuchal plates 4, cervical 6, front of the dorsal disk rather narrow. Length 37 inches. N. Africa. Presented by Sir I. Gardnor Wilkinson.

*i.* Young, stuffed. Length 24 inches. N. Africa. Presented by Sir I. Gardnor Wilkinson.
*j.* Young, stuffed, not good state. Length 19 inches. Nuchal plates 4, cervical 6.
*k.* Half grown, stuffed. Face rather convex before the eyes. Length 60 inches. N. Africa.

The Muggar or Goa. Crocodilus palustris, *Lesson*, *Belanger*, *Voy.* 305. C. vulgaris, var. *Gray*, *Syn. Rept.* 58. *Dum. et Bib. E. G.* iii. 108. C. biporcatus, *Cuv. Oss. Foss.* v. *t.* 1, *f.* 4-(13?), skull. C. biporcatus raninus, *Muller*, *Ost. Ind. t.* 3, *f.* 7, (not *f.* 8).

Head elongate-oblong, triangular, convex and rugose above, with 2 short, irregular, nodulose, sinuous ridges in front of the orbit, sides rather swollen behind the notch, rather more than half as long again as the width of the head behind; muzzle at the first notch nearly two thirds the width of the forehead, at the 9th tooth as wide as two thirds the space between the eyes and nostrils; forehead concave, with the sides nearly parallel in the young and converging towards the front in the adult.

*a.* Half grown, stuffed. Nuchal plates 4, cervical 6. Length 63 inches. India. From Dr. Mantell's collection.
*b.* Half grown, stuffed. Length 56 inches. India.
*c.* Young, stuffed. Length 22 inches. India. Presented by Gen. Th. Hardwicke.
*d.* Skull of half grown animal. Length 12 inches. India.
*e.* Skull of adult. Length 26 inches, (" animal 33 feet"). Presented by Gibson Reeve, Esq.
*f.* Skull of adult. Length 23 inches. India.
*g.* Skull of adult. Length 21 inches. N. coast of Australia. Presented by Capt. Stokes, R.N.
*h.* Half grown, stuffed. Length 72 inches. Muzzle rather broader; shields strongly keeled. India?
*i.* Very young, in spirits. India. Presented by Gen. Th. Hardwicke.
*k.* Young, stuffed. Length 28 inches. From Mr. Miers' collection.
*l.* Shield and part of back of adult. Length 84 inches. India.

The largest in the Paris Museum is about 10 feet; muzzle at the 9th tooth much wider than in C. vulgaris.

The Wide-faced Crocodile. Crocodilus trigonops.

Nuchal plates 4; cervical 6, large, strongly keeled; head oblong, triangular, convex, rugose above, with 2 short, irregular, sinuous ridges in front of the orbit, and an oblong convexity upon each side, above the 9th tooth; sides of the face rather swollen behind the notch, rather more than half as long again as the width of the head behind; muzzle at the first notch nearly two thirds

the width of the forehead, at the 9th tooth nearly as wide as the space between the eye and nostrils; forehead nearly square.

*a.* Young, stuffed. Length 26 inches. India.
*b.* ? Young, stuffed. Length 30 inches. Muzzle rather more attenuated. Singapore.

In the College of Surgeons there is a skull of an animal almost twice the size of *a*, which exactly agrees with it in proportions and form. It differs from *C. palustris* in having a much wider, shorter, and more triangular head.

***** *Hind feet without any fringe.*

GRAVES's CROCODILE. Crocodilus planirostris, *Graves, Ann. Sci. Phys.* ii. 348. *Gray, Syn. Rept.* 59. Crocodilus Gravesii, *Bory, Dict. Class. H. N.* v. 109. *Dum. et Bib. E. G.* iii. 101.

Muzzle short, depressed; dorsal plates furnished with recurved points; the hind feet webbed, but not toothed on the hinder edge.

Inhab. ——— ?

****** *Feet unknown. Skull with 2 central ridges, one behind the other.*

The SIAMESE CROCODILE. Crocodilus Siamensis, *Schn. Amp.* 157. *Gray, Syn.* 6. C. galeatus, *Cuv. Ann. Mus.* x. 51, *t.* 1, *f.* 9. *Tiedem. Amph.* 76, *t.* 11. *Dum. et Bib. E. G.* iii. 113. *Hist. Acad. Sci.* iii. 255, *t.* 64. *Faujas, Mant. S. P. t.* 43. *Latr. Rept.* i. *t.*

Skull surmounted by two strong central triangular ridges, placed one before the other.

Siam. Only known from a skull in Mus. Paris?

## Fam. II. Alligators, (Alligatoridæ).

Canine teeth of the lower jaw fitting into a pit in the edge of the upper jaw. New World.

*Synopsis of the Genera.*

1. Jacare. Jaws oblong, depressed, with a ridge across the face between the eyes. Hind feet scarcely webbed. Nostrils with a cartilaginous septum. Eyelids fleshy.

2. Alligator. Jaws oblong, depressed, with a small longitudinal rib between the orbits. Hind feet webbed. Nostrils separated by a bony septum.

3. Caiman. Jaws oblong, depressed. Hind feet scarcely webbed. Nostrils a cartilaginous septum. Eyelids with 3 bony plates.

### 1. Jacare.

Head oblong, depressed, with a ridge across the face before the eyes, rounded in front. Teeth unequal, canines of lower jaw each fitting into a pit in the upper jaw. Toes scarcely webbed. Nuchal and cervical plates united into one group. Eyelids fleshy, only partially bony. Nostrils only separated by a cartilage.

* *Preorbital ridge to the edge of the jaw. Maxillary pits* 3-3. *Frontal ridge bent backward.*

The Broad-headed Yacare. Jacare fissipes. Caiman fissipes, *Spix, Braz. t.* 3. *Wagler, Icon. t.* 17. *Natterer, Ann. Mus. Vien.* 321, *t.* 22. A. sclerops, *Nieuweid, Abbild. t.* —— *Schinz. Repl. t.* 12. A. cynocephalus, *Dum. et Bib. E. G.* iii. 86. C. latirostris, *Daud.*

Head short, ovate, triangular; muzzle short, broad, thick, frontal ridge sinuate, preorbital ridge longitudinal, to the edge of the jaw; maxillary pits 3-3; upper part of the eyelid rugose; nape with 2 rows of shields; nuchal shields many, 3-rowed; cervical 8, in 3 rows; scales of the back square, rather sharply keeled, 4 on each of the three last cross bands; sides with some scattered larger keeled scales; back greenish, black-spotted.

*a.* Very young, in spirits. Trop. America.
*b, e, f.* Young, stuffed. Length 23—32 inches.
*c.* Nearly adult, stuffed. Length 59 inches. Brazils.
*d.* Adult, stuffed. Length 72 inches. Brazils.

The Yacare. Jacare sclerops. Crocodilus sclerops, *Schn. Amph.* 162. *Cuv. Ann. Mus.* x. & *Oss. Fos.* v. *t.* 1, *f.* 6, 7, *t.* 2, *f.* 3. *Tiedem. Amph.* 60, *t.* 5. *Guérin, Icon. t.* 2, *f.* 2, & 20. *Gray,*

*Syn.* 62. *Dum. et Bib.* iii. 79. *Wagler, Syst.* 140, *t.* 8, *f.* 1. *Natterer, Ann. Mus. Vien. t.* 23. C. Yacare, *Daud. Rept.* ii. 407. C. Americanus, *Laur. Seba, t.* 104, *f.* 10. C. Caiman, *Daud.*

Head elongate; muzzle flat, moderately enlarged, frontal ridge very slightly sinuate, preorbital ridge to the edge of the jaws; maxillary pits 3-3; upper part of the upper eyelids finely striated; nuchal shields many, in 2 series; cervical, small, oval, elevated much compressed scales, in 4 or 5 rows; dorsal plate obtusely keeled, the two vertebral series nearly flat, forming a groove; back black, with transverse yellow bands.

Inhabits Brazils.

The Black Yacare. Jacare nigra, *Spix, Braz. t.* 4. *Natterer, Ann. Mus. Vien.* i. 347, *t.* 21. Alligator Sclerops, var. *Gray. Syn.* 62.

Head ovate, triangular, depressed; muzzle elongate, broad, blunt; frontal ridge very slightly sinuated, preorbital oblique, to the edge of the jaw; maxillary pits 3-3; upper eyelid striated; nuchal shields many, in 3 series; cervical in 5 series; dorsal acutely keeled, the two lateral series higher, leaving a vertebral groove; black, with whitish spots, beneath white.

Inhab. Brazils. Mus. Vienna.

** *Preorbital ridge indistinct or none. Maxillary pits none.*

The Spotted Yacare. Jacare punctulatus, *Spix, Braz. t.* 2. Alligator punctulatus, *Dum. et Bib. E. G.* iii. 91. *Natterer, Ann. Mus. Vien.* i. 347, *t.* 25.

Head triangular, oblong, rather gibbous, muzzle elongate, attenuated, very flat, with a rounded point in front, a slight enlargement behind the nostrils; frontal ridge arched and slightly bent back; preorbital ridge none; maxillary pits none; upper part of the eyelid rugose; nape with 2 rows of plates; back flat, without any grooves or prominent keels, yellow, black-dotted; sides with some rows of larger scales; olive, dotted and varied with black, beneath yellowish.

Inhab. Brazils. Mus. Vienna.

Natterer's Yacare. Jacare vallifrons, *Natterer, Ann. Mus. Vien.* i. 322, *t.* 24.

Head triangular, oblong, rather gibbous; muzzle elongate, attenuated, frontal ridge bent forwards, preorbital ridge none; maxillary pits none; upper eyelid rugose; nuchal shields many, in 2 series; cervical obtusely keeled, in 5 bands; dorsal obtusely keeled; olive, dotted coarsely with black, beneath yellowish.

Inhab. Brazils. Mus. Vienna.

### 2. Alligator.

Jaws oblong, very depressed, broad, nearly parallel, rounded in front. Forehead with a small longitudinal ridge between the orbits. Teeth unequal, the lower canines received into a pit in the edge of the upper jaw. Nuchal and cervical plates separate. Feet fringed behind. Toes half-webbed, the outer front toe free. Nostrils separated by a bony septum arising from the upper edge. N. America. The muzzle elongates by age.

The Alligator. Alligator Missisipensis, *Gray, Syn.* 62. Crocodilus Missisipensis, *Daud. Rept.* ii. 412. C. Cuvieri, *Leach, Zool. Misc.* ii. 102, *t.* C. Lucius, *Cuv. Ann. Mus.* x. *& Oss. Fos.* v. *t.* 1, *f.* 8, *t.* 2, *f.* 4. *Tiedem. Amph.* 58, *t.* 4. *Merrem*, 34. *Dum. et Bib. E. G.* iii. 75, *t.* 25, 26. The Alligator, *Catesby, Carol. t.* 63.

In the young it is as long from the eyes to the nostrils, as the width of the muzzle at the 9th tooth, in the old specimens the distance is half as long again.

*a.* Stuffed. Length 38 inches. N. America. From Dr. Mantell's collection.
*b.* Stuffed. Length 45 inches. N. America. Presented by E. Doubleday, Esq.
*c.* Stuffed. Length 35 inches. N. America.
*d, e.* Very young, in spirits. N. America. From Dr. Mantell's collection.
*f.* Adult, stuffed. Length 84 inches. N. America.
*g.* Half grown, stuffed. Length 63 inches. N. America. A. Cuvieri, *Leach, Zool. Misc.* (the specimen figured).
*h.* Half grown. Length 66 inches. N. America.
*i.* Skeleton of young. N. America. From Dr. Mantell's collection.

### 3. Caiman.

Jaws oblong, depressed, subpyramidical, rounded and swollen at the end, without any frontal ridges or maxillary pits. Forehead flat, smooth. Teeth $\frac{18}{18}$, unequal, lower canine teeth fitting into a pit in the inner edge of the upper jaw. Eyebrows defended with 3 bony plates. Toes scarcely webbed. Nuchal and cervical plates united into one group? Trop. America.

The Trigonal Cayman. Caiman trigonatus. Crocodilus t. *Schn. Amph.* 161. *Seba, Thes.* i. *t.* 105, *f.* 3. *Tiedem. Amph. t.* 7. *Wagler, Syst.* 140. *Natterer, Ann. Mus. Vien.* i. 323, *t.* 26. *Shaw, Zool.* i. 58. Crocodilus palpebrosus, var. 2, *Cuv. Ann. Mus.* x. *& Oss. Foss.* v. *t.* 2, *f.* 1. *Gray, Syn.* 63. *Dum. et Bib. E. G.* iii. 72.

One row of nuchal plates, which are separated from the cervical plates by a line of slender pointed scales; head triangular, ob-

long, rather gibbous; muzzle elongate, attenuate, rather convex above; brown, black-banded, beneath whitish, black-varied.

*a.* Very young, in spirits.

The Eyebrowed Cayman. Caiman palpebrosus. Crocodilus palpebrosus, *Cuv. Ann. Mus.* x. & *Oss. Fos.* v. *t.* 2, *f.* 2. *Tiedem. Amph.* 16. *Gray, Syn.* 63. *Dum. et Bib. E. G.* iii. 69. *Wagler, Syst.* 140. *Natterer, Ann. Mus. Vien.* i. 324, *t.* 27. Lacerta crocodilus, *Blumenb. Handb.* 245. Jacaretinga moschifer, *Spix, Braz. t.* 1.

Two broad rows of plates on the nape; shields of the back slightly keeled, equal, the 14th and 15th cross rows on the back composed of 4 shields; head triangular, oblong, rather gibbous; muzzle elongate, attenuate, above rather convex.

Inhab. Brazils.

The Swollen-headed Cayman. Caiman gibbiceps. Champsa gibbiceps, *Natterer, Ann. Mus. Vienna*, l. 324, *t.* 28.

Head triangular, oblong, gibbous; muzzle elongate, attenuate, excavated above; nuchal shields many, in 2 rows, trigonal acute, cervical very acutely keeled, in 5 bands, the 2nd and 3rd bands of 3 shields, middle shield bicuspid, the rest in pairs; dorsal shields very acutely keeled; two vertebral series rather blunter; black-brown, beneath pale whitish varied.

Tropical America. Mus. Vienna.

## Order V. AMPHISBÆNIANS, (AMPHISBÆNIA).

Body elongate, cylindrical, naked, with square imbedded plates placed in cross rings, divided into two sets by a slight longitudinal groove on each side. Tail short, continuous, blunt. Tongue not sheathed, flat, enlarged and nicked at the end, ending in 2 smooth threads, the rest covered with large flat papillæ or scales. Eyes small, under the skin; eyelid none. Ear hidden under the skin. Mouth small; jaws not extensile. Feet none, or rarely in front. Penis double. Vent rather transversely plaited. Skull very solid; orbits incomplete; tympanic bone inclosed in the skull, oblique; parietal bone simple; temporal and mastoid bones scarcely separate.

*Synopsis of the Families.*

A. *Teeth in the margin of the jaws.*

1. TRIGONOPHIDÆ. Limbs none.

B. *Teeth on the inner side of the jaws.*

2. AMPHISBÆNIDÆ. Limbs none. Body and chest covered with similar square shields. Preanal pores distinct.
3. CHIROTIDÆ. Limbs 2 anterior.
4. LEPIDOSTERNIDÆ. Limbs none. Chest covered with larger and differently shaped shields. Preanal pores none.

### Fam. I. TRIGONOPHES, (TRIGONOPHIDÆ).

Teeth on the edge of the jaws, solidly fixed and nearly united to one another at their base, unequal, conical, rather compressed. Nostrils lateral, small, oval, pierced in the naso-rostral plate. Preanal pores none. Limbs none.

#### 1. TRIGONOPHIS, *Kaup.*

Head short, conical, very blunt. Eyes distinct. Naso-rostral plate encasing the muzzle. Tail conical, short.

The ELEGANT TRIGONOPHE. Trigonophis Weigmanni, *Kaup. Isis*, 1830, 880. *Dum. et Bib. E. G.* v. 469. Amphisbæna elegans, *Gerv. Mag. Zool. t.* 11, (1835). *Ann. Sci. Nat.* vii. 311.

Body tessellated, black and white or yellow, head brown, with an oblique band across the temples; tail very short, conical; teeth 5 in the intermaxillaries, 10 on each side of the maxillaries, and 18 in the lower jaw.

*a*, *b*. Half grown, in spirits. Algiers. Presented by M. Bibron.

## Fam. II. AMPHISBÆNAS, (AMPHISBÆNIDÆ).

Teeth fixed on the inner side of the jaws, conical, simple and pointed. Nostrils lateral, small, in the naso-rostral plate. Body and chest covered with square similar sized shields, with a lateral line only. Nape with a longitudinal groove. Limbs none. Preanal pores distinct, (sometimes obliterated on one side). Tail short. Primary teeth $\frac{7}{7}$ or only $\frac{6}{6}$.

### *Synopsis of the Genera.*

** Nasal plates extending across the muzzle, with 2 pair of frontal plates behind them; first labial under the nasal.*

1. AMPHISBÆNA. Head depressed, muzzle rounded, rostral shield triangular, flat, erect. Nasal 2, large, square, separate, extending across the muzzle.
2. SAREA. Head depressed, muzzle elongate, rounded, rostral shield triangular, inferior. Nasal 2, large, united together, extending across the muzzle.
3. CYNISCA. Head flat, muzzle rather sharp, rostral shield triangular, erect. Nasal rhombic, oblique, touching above, in front.

*** Nasal plates 2, small, lateral, with a single large anterior frontal plate between them.*

4. ANOPS. Muzzle compressed, rostral shield forming an arched crest to the forehead, separating the small nasal plates, which are over the first labial and the anterior frontals. Tail cylindrical, truncate.
5. CADEA. Muzzle rather compressed, acute, rostral and anterior frontal shields flat, the latter moderate, elongate. Nasal plate over the first labial. Tail cylindrical, truncated.
6. BLANUS. Muzzle depressed, rounded, the rostral and anterior frontal shields flat, the latter very broad. Nasal plate large, occupying the place of the first labial. Tail conical, acute.

### 1. AMPHISBÆNA.

Head depressed, broad. Muzzle rounded. Nasal plates 2, large, broad, square, separate, extending across the muzzle; rostral triangular, flat (not soldered to the nasal); 2 pairs of frontal shields, the first pair broadest. Eyes distinct. Tail round, truncated. Preanal pores distinct.

* *Muzzle broad, rounded. Labial plates 4, front lower high, narrow, triangular. Body thick, one coloured. Scales with a pellucid dot in the front edge.*

The WHITE AMPHISBÆNA. Amphisbæna alba, *Linn. Mus. Adolph.* 26, *t.* 4, *f.* 2. *Dum. et Bib. E. G.* v. 484. A. rosea, *Shaw, Nat. Mis.* iii. *t.* — A. pachyura, *Wolf. Abbild.* ii. 61, *t.* 17. A. flavescens, *Nieuweid, Abbild. t.* — *Wagler, Icon. t.* 16, *f.* 1. *Schinz. Amph.* 129, *t.* 46. Le Blanchet, *Lacep. Q.O.* ii. *t.* 21, *f.* 1.

White; tail with 16 or 20 rings; preanal pores 8 or 9; upper labial plates 3, first touching the rostral; orbital shield lozenge-shaped, over the suture of the second and third labial plates.

*a.* Adult, bleached, in spirits. Femoral pores 8; the shield in front of the cloaca 4-sided, elongate. Old collection.

*b, c.* Adult, in spirits. Femoral pores 6; the 2 centre shields in front of the cloaca narrow behind, the rest 4-sided, elongate. Brazils. From M. P. Clausen's collection.

** *Muzzle broad, rounded in front. Labial plates 8, the front lower labial broad, triangular. Vertebral shields small. Body thick, black, white-varied.*

The SOOTY AMPHISBÆNA. Amphisbæna Americana, *Scheuch. P. S.* iv. 1179, *t.* 1129, *f.* D, *t.* 1249, *f.* 10. *Seba, Thes.* i. *t.* 18, *f.* 3; *t.* 22, *f.* 2, 3; *t.* 73, *f.* 4; *t.* 100, *f.* 3. A. fuliginosa, *Linn. L. S.* i. 392. *Daud. Rept. t.* 91, *f.* 2. *Dum. et Bib. E. G.* v. 480. A. vulgaris, A. varia, A. magnifica and A. flava, *Laur. Syn.* 119—122. *Guerin, Icon, t.* 18, *f.* 1. La enfumée, *Lacep. Q. O,* ii. 459.

Black and white varied; tail with 26, body 29 to 33 rings; preanal pores 8 or 9.

*a.* In spirits. First upper labial plate divided in half, second lower labial distinct. S. America.

*b.* In spirits. Second lower labial plate distinct. Demerara. Presented by Lieut. Friend, R.N.

*c.* In spirits, bleached. Vertebral plates rather large, irregular. S. America.

*d.* Adult, in spirits. Second lower labial indistinct. Berbice. Presented by Lady Essex.

*e.* In spirits. Lead-coloured, belly slightly white-spotted. Demerara. Presented by S. J. Woodward, Esq.

*** *Muzzle narrow, rounded. Body slender, brown, pale beneath.*

PETREE'S AMPHISBÆNA. Amphisbæna Petrei, *Dum. et Bib. E. G.* v. 487.

Brown, paler beneath; tail with 26 or 28 rings; preanal pores 8; upper labial shields 3; preanal shields 10 or 12.

Inhab. Brazils. Mus. Paris.

The Worm-like Amphisbæna. Amphisbæna vermicularis, *Wagler, Bras.* 73, *t.* 25, *f.* 2. *Dum. et Bib. E. G.* v. 489.

Brown, beneath paler; tail with 22 rings; occiput and temple with 8 square plates on each side; labial scales $\frac{4}{4}$, hinder upper small, square, rest triangular; preanal pores 2 or 4; preanal plates 6, narrow, long, forming an arched line.

*a.* In spirits. Brazils. From M. P. Clausen's collection.

Darwin's Amphisbæna. Amphisbæna Darwinii, *Dum. et Bib. E. G.* v. 491.

Reddish brown, beneath paler; tail with 22 rings of plates; occiput with 2 subtriangular compartments; temple with 5 square scales; preanal pores 4 indistinct; preanal plates 6; labial plates $\frac{5}{5}$.

Inhab. Montevideo. Mus. Paris.

### 2. Sarea.

Head flat. Muzzle narrow acute. Eyes none. Rostral plates small, triangular; nasal rhombic; lateral touching one another at the front upper angle; 2 pair of frontal, the anterior pair elongate; occiput and temple with square scales. Body and chest with equal square scales. Preanal pores distinct. Tail truncated, blunt.

The Blind Amphisbæna. Sarea cæca. Amphisbæna cæca, *Cuv. R. A.* ii. 73. *Gray, Griffith, A. K.* ix. 67. *Dum. et Bib. E. G.* v. 492.

Pale reddish brown, darker spotted; eyes none; upper lip scales 3; tail with 15 or 16 whorls; preanal pores 4.

*a.* Adult, in spirits. Tail conical, blunt, perhaps reproduced. Porto Bello, W. Indies. Presented by Capt. Austen, R. N.

### 3. Cynisca.

Head flat, narrow. Muzzle conical, 4-sided, elongate, rounded at the end. Eyes distinct. Temple and occiput with large shields. Rostral plate triangular under the muzzle; rostro-nasal 2, very large, soldered, covering the whole of the front of the head. Body and chest with similar small shields. Preanal pores distinct. Tail round, truncated.

The White-tailed Amphisbæna. Cynisca leucura. Amphisbæna leucura, *Mus. Leyd. Dum. et Bib. E. G.* v. 498. A. macrura, *Schlegel, Mus. Leyd.*

Brown, end of the tail white; tail with 25 or 26 rings; preanal pores 20; upper labial plates 3-3.

Inhab. Guiana. Mus. Leyden.

### 4. Cadea.

Muzzle narrow, acute. Eyes indistinct. Rostral small, quadrangular, perpendicular, bent on the muzzle. Temple with square

scales. Body and chest with similar square shields. Preanal pores distinct. Tail truncated, blunt. Nasal plates small, lateral upon each side of a single large anterior frontal plate, and a pair of vertebral plates behind it; upper labial plates 4-4, the front under the nasal.

The Dotted Amphisbæna. Cadea punctata. Amphisbæna punctata, *Bell, Zool. Journ.* iii. 236, *t.* 20, *f.* 2. *Dum. et Bib. E. G.* v. 494. A. cæca, *Sagra, Cuba*, 195, *t.* 21.

Whitish, yellow-dotted; tail with 12 rings; preanal pores 4; upper labial plates 2-2.

*a.* In spirits. Cuba. Presented by W. S. MacLeay, Esq. The specimen described by Mr. Bell.

### 5. Anops, *Bell.*

Head compressed, slightly elevated. Eyes none. Temples with square scales. Rostral plate large, with an arched crest from the mouth to the forehead. Body and chest with similar equal scales. Preanal pores distinct. Tail truncated, blunt. Nasal plates small, lateral, over the first labial shield, separated by the single keeled anterior frontal plate.

King's Anops. Anops Kingii, *Bell, Proc. Zool. Soc.* 1833, 99. *Zool. Journ.* v. 391, *t.* 16, *f.* 1. Amphisbæna Kingii, *Dum. et Bib. E. G.* v. 497. Amph. galeata, *Mus. Berl.*

Chesnut brown; tail with 18 or 20 rings; preanal pores 4—6; upper labial plates 3-3.

Inhab. Buenos Ayres. Mus. Paris.

### 6. Blanus, *Wagler.*

Head depressed, flat. Muzzle short, rounded. Eyes distinct. Rostral plates 4-sided. Anterior frontal very broad, covering all the top of the forehead. Body and chest with similar square plates. Tail conical, prolonged into a point. Preanal pores distinct. Nasal plate large, square, occupying the place of the first labial. Vertebral and occipital plates square, similar, in pairs.

Vandelli's Amphisbæna. Amphisbæna cinerea, *Vandelli Mem. Acad. Lisb.* i. 69. *Gerv. Mag. Zool.* 1836, *t.* 10. *Dum. et Bib. E. G.* v. 500. A. oxyura, *Wagler. Spix, Braz.* 72, *t.* 35, *f.* 1. A. rufa, *Hemp. Berl. Gesell.* 1820, 130. B. rufus, *Wiegem. Arch.* 1836, 157.

Brown, head and intervals between the scales whitish; upper labial shields 2; tail with 19 or 20 rings; preanal pores 4-6.

*a—f.* In spirits. Xanthus. Presented by Chas. Fellowes, Esq.

NATURAL HISTORY SOCIETY

## Fam. III. LEPIDOSTERNONS, (LEPIDOSTERNIDÆ.)

Teeth fixed on the inner side of the jaws, conical, simple and pointed. Nostrils lateral, small, inferior, in a rostro-nasal plate. Chest covered with larger and differently shaped shields from the rest of the body. Limbs none. Preanal pores none. Tail short, truncated. Body with an impressed dorsal, ventral and lateral line, the latter the widest.

### *Synopsis of the Genera.*

1. LEPIDOSTERNON. Head-plates 10 or 12.
2. CEPHALOPELTIS. Head-plates 2, very large.

### 1. LEPIDOSTERNON, *Wagler.*

Head triangular, convex, covered with 10 or 12 shields. Chest with many plates of a different shape from those of the body. Tail cylindrical, truncated.

The SMALL-HEADED LEPIDOSTERNON. Lepidosternon microcephalum, *Wagler. Spix, Braz.* 70, *t.* 26. *Wagler, Icon. t.* 16, *f.* 1. *Muller. Tiedem. Mag. Phys.* iv. *t.* 22, *f.* 4. *Dum. et Bib. E. G.* v. 505. Amphisbæna punctata, *Nieuweid, Abbild. t* L. Maximilianum, *Weigmann.*

Yellow, back brown-spotted; head with 10 head-shields; chest with 10 long narrow shields; preanal shields 6; tail with 10 or 12 rings.

Inhabits Brazils. Mus. Munich.

The DOLPHIN-HEADED LEPIDOSTERNON. Lepidosternon phocæna, *Dum. et Bib. E. G.* v. 507.

Whitish, back brown-spotted; head with 12 shields; chest with numerous small rhombic shields; tail with 10 rings.

Inhab. Buenos Ayres. Mus. Paris.

### 2. CEPHALOPELTIS, *Muller.*

Head covered with 2 large hood-like plates; chest covered with large shields; tail cylindrical, truncated.

The CEPHALOPELTIS. Cephalopeltis scutigera. Cephalopeltis Cuvieri, *Muller, Zeitsch. Physiol.* iv. 253, *t.* 21, *f.* 6, 7; *t.* 22, *f.* 5. Amphisb. scutigera, *Hemp. Berlin Gesellsch.* 1820, 129. *Dum. et Bib. E. G.* v. 509. Lepidosternon Hemprichii, *Weigm.*

Whitish, brown-spotted; chest with 8 or 10 large shields; tail with 14 or 15 rings.

*a* Adult, *b* Younger, in spirits. Brazils. From Dr. Gardner's collection.

## Fam. III. Chirotes, (Chirotidæ).

Teeth conical, recurved, simple, pointed, unequal, separate, placed on the inner edge of the jaws. Nostrils in the naso-rostral plate. The front members short, weak, furnished with 5 subequal toes, one clawless. Preanal pores distinct. Tail short, cylindrical.

### 1. Chirotes, *Dumeril.* Bimanus, *Oppel.*

Toes 5. Head short, depressed, rounded in front. Rostral plate 4-sided, perpendicular; fronto-nasal and rostral large; frontal very small. Shields of the chest and body similar. Tail elongate, rounded at the end.

The Chirotes. Chirotes lumbricoides, *Flem. Ph. Zool.* ii. 278. C. canaliculatus, *Cuv. R. A. Merrem, Tent.* 181. C. Mexicain, *Bory.* Le Cannele, *Lacep. Q. O.* i. 613. Bipes canaliculatus, *Bonnat. Erp.* 68, *t.* 12, *f.* 6. Lacerta lumbricoides, *Shaw, Nat. Misc.* vi. L. Mexicana, *Donn. Zool. Beyt.* iii. 135. L. sulcata, *Suckow. Thier.* iii. 147. Chamæsurus propus, *Schinz.* Chalcides propus, *Daud, Rept.* iv. 372, *t.* 58, *f.* 4. Bimanus p. *Oppel.* 46.

Yellow, brown-spotted, whitish beneath.

*a*, *b*. In spirits. Mexico, "Brazils."

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ERRATA.

Page 26, *for* Emys macrocepha*lus*, *read* E. macrocepha*la*.
Page 62, *for* Gibson *Reeve*, *read* Gibson *Rowe*.
Page 72, *before* Amphisbæna cinereus, *add* Blanus cinereus.

E. NEWMAN, PRINTER, 9, DEVONSHIRE ST., BISHOPSGATE.

# CATALOGUE

OF THE

# SPECIMENS OF LIZARDS

IN

# THE COLLECTION

OF THE

# BRITISH MUSEUM.

---

PRINTED BY ORDER OF THE TRUSTEES.

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LONDON:
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# INTRODUCTION.

THE chief object in preparing the present Synopsis, has been to give at one view a complete Catalogue of all the specimens of Lizards at present in the British-Museum collection, and an account of the species known to exist in other collections, but which are at present desiderata in the British Museum, so as to enable travellers, collectors, and others, to assist in completing the national collection.

For this purpose, a synoptic description has been given of all the genera and species at present known to exist in the different museums and private collections, and at the end of each description is added an enumeration, stating the state, age, country, and other peculiarities of each specimen of the kind in the Museum collection; or when the species is not at present in that collection, the museum in which it has been observed is added after the general habitat of the species. The different individuals of each species contained in the British Museum collection, are indicated by the letters *a*, *b*, *c*, &c.

When the age of the specimen is not stated, it is to be understood that it is full grown, or nearly so; when otherwise, its state is marked immediately after the letter by which it is distinguished; and if the sexes are known, it is stated to be male or female. These particulars are followed by the habitat, which is given as particularly as the materials possessed by the Museum permit.

Those specimens which have been presented to the Museum have the name of the donor marked immediately after the habitat. When there is no such indication, the specimens have been either purchased, or procured in exchange; and in this case, whenever the place or person from whom they have been received gives authenticity to the specimens, or

adds anything of moment to their history, they are noted as being from such or such a collection.

In the adoption of generic and specific names, it has been thought right to use, whenever it was possible, that which was first applied to the species. As far as regards the specific names, there is comparatively little difficulty in the application of this simple rule; but generic names have been used by different authors in senses so widely different, and the groups which they were meant to designate have been so variously extended or restricted, that it is no easy matter to determine, where several names have been used, which of them ought to be preferred. And as every original observer will constantly make use of characters which others may have overlooked, or not thought of so much importance as he may be inclined to attach to them, even when a generic name is used, it will of necessity be often employed in a different sense, or with a more restricted or extended meaning than its original proposer applied to it.

It is needless, however, to enter into the details of nomenclature, further than to observe that to the name adopted for the genus, is appended the specific name under which the animal is believed to have been first described. If the generic name adopted be different from that employed by the establisher of the species, his name immediately follows it as a synonyme; and where the animal has received more than one specific name, these names are also given. But it has been thought unnecessary to load the Catalogue with any other generic names, where no change has been made in the specific, as it has been considered that these names will be sufficient for all the purposes of identification.

In those cases where the two sexes of the same species, or any particular individual. state or variety belonging to it, has been differently named, such names (belonging exclusively to the state or individual so described) are placed after the reference to the specimen to which they generally apply.

To determine with accuracy the names and synonymes of the species, the Museums of Paris, Leyden, Vienna, Berlin, Francfort, &c., have been personally examined. Many of the specimens in the Museum collection have been received from the original describers, and most of them have been examined by M. G. Bibron, one of the authors of the *Erpétologie*

*Générale, ou Histoire Naturelle Complète des Reptiles,* now in the course of publication at Paris. So that there is every reason to believe they are named in perfect accordance with those in the various continental collections.

The specimens presented by
*Sir Joseph Banks, Bart.*
*Capt. White,*
*Patrick Russell, M.D.*
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As the species described by Dr. W. Elford Leach, in Mr. Bowditch's *Ashantee.*
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*Capt. Fitzroy, R.N.*
As the types of the species described by Mr. Bell, in the *Zoology of H.M.S. Beagle.*
*M. De Blainville,*
As the types of the species described by that Professor in the *Nouveaux Memoires du Museum.*
*M. Bibron,* and
*The Directors of the French Museum,*
As the types of the species described by MM. Dumeril and Bibron, in their *Erpetologie Generale.*
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*Rev. W. Wilton,*

As the types of the Australasian species described by me in the *Proceedings of the Zoological Society*, the *Appendix to Capt. G. Grey's Australia*, and in the *Zoology of H.M.S. Erebus & Terror.*

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*Hon. Arthur Russell,*
*P. B. Webb, Esq.*
*Sir J. G. Wilkinson,*

As illustrative of the species described as coming from Southern Europe, Northern Asia and North Africa, by Professors Lichtenstein and Milne-Edwards, Dr. Ruppell, MM. Duges, Audouin, Bibron, and other authors.

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*John Lee, LL.D.*
*A. MacLeay, Esq.*
*Capt. Marryatt,*
*M. Petit,*
*W. Raddon, Esq.*
*Dr. Stanger,*

As illustrative of the species found in Southern and Western Africa, and described by Dr. A. Smith, Dr. Burchell, and others, and a small collection presented by myself, as illustrative of those found in the Island of Madagascar, and chiefly described by the French authors.

*Sir John Barrow,*
*Capt. Sir Edward Belcher* (from Borneo),
*Major Bevan,*
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*J. Reeves, Esq.* (China),
*Rev. Gerard E. Smith,*
*Capt. Stafford,*
*Col. Stoddart* (Ceylon),
*Col. Sykes,*

As illustrative of the Indian, Chinese, Bornean and other Asiatic specimens, described by me in the *Illustrations of Indian Zoology, the Zoological Journal,* and other papers.

*Edward Doubleday, Esq.*
*Richard Harlan, M.D.*
*Jacob Green, M.D.*
*Dr. Macauley,*
*W. Ogilby, Esq.*

May be regarded as the illustrative of the North American species described by Say, Harlan, Green, Holbrook, and other American authors.

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*Lord Stuart de Rothsay* (Brazils),
*J. E. Winterbottom, Esq.* (W. Indies),
*J. Wright, Esq.* (Trinidad),

As the illustrations of the species from Tropical and South America and the West Indies, described by Sir Hans Sloane, Brown, Wagler, Spix, Gravenhorst, Guilding, and others.

The specimens purchased or procured in exchange from

*The Leyden Museum*, as the types of the species described and figured by Dr. Schlegel, in his *Fauna of Japan* and in his *Abbildungen*, and by Dr. S. Muller in his work on the *Reptiles of New Guinea, Borneo, &c.*

*The South African Museum*, as the types of the species described by Dr. A. Smith, in his *Illustrations of the Zoology of South Africa.*

*M. Brandt's* collection, as the types of the species described by Pallas, Eversmann, and other Russian naturalists.

The following list exhibits the geographical distribution of the species. When the species is found in two of the larger divisions of the list, on account of its extensive range, it is preceded by an asterisk.

The names of the species which are at this time desiderata in the Museum collection, are printed in *Italics*.

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„ *chalybea*, 33. „
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„ *nigropunctata*, 35. Corfu.
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„ *cinereus*, 39. South E.
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*Gongylus ocellatus, 123.
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„ *macrodactylus*, 44. Lycia.
*Pseudopus Pallasii, 55. Lycia.
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*Microdactylus gracilis*, 57.
Hinulia *Dussumieri*, 75.

*Ristella Rurkii*, 86.
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„ Hardwickii, 96.
*Hagria Vosmaerii*, 97.
*Chiamela lineata*, 97.
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*Tiliqua rufescens, 109.
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The British Museum possesses 429 out of the 612 species which are known to exist in the different European collections. Many of those which are wanting are inhabitants of our own possessions, or places with which we have a considerable trade; it is therefore to be hoped, now that the desiderata are known, that we shall soon be able greatly to reduce their number, and also, doubtless, add to the species already described.

JOHN EDWARD GRAY.

*British Museum,*
*June* 4, 1845.

# SYNOPTIC CATALOGUE

OF

# REPTILES.

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## Class III. — REPTILES, (Reptilia).

Animal furnished with a distinct bony skeleton. The skin clothed with horny imbedded plates or imbricated scales, which are covered with a thin and often deciduous epidermis. They respire by cellular lungs. The heart has a single ventricle divided into two or more cells, giving origin to two arteries and receiving the cold red blood by two veins from two auricles. Penis distinct. Oviparous, but the egg sometimes hatched in the body of the mother, often covered with a thick more or less calcareous shell. The young like the parent, and not undergoing any transformation.

### *Synopsis of the Orders.*

### Sect. I. Scaly Reptiles, (Squamata).

Body covered with overlapping scales. Skull formed of separate bones; the ear-bone external and only articulated to the rest. Vent a cross slit. The generative organs bifid. Tongue free.

1. Lizards, (Saura). Mouth not dilatable: lower jaw-bones united by a bony suture in front. Limbs 4, distinct, rarely in such a rudimentary state as to be hidden under the skin.
2. Serpents, (Ophidia). Mouth very dilatable: bones of the lower jaws separate from each other, only united by ligaments. Limbs none, or only in the form of short spurs on the sides of the vent.

## Sect. II. Shielded Reptiles, (Cataphracta).

Body covered with square imbedded shields. Bones of the skull adglutinated together, hard, with the ear-bone sunk into its substance. Jaws united into a solid mass: mouth not dilatable. Vent roundish or linear, plaited. The generative organs simple.

3. Tortoises, (Chelonians). Body short, depressed. The bones of the thorax external, surrounding the muscles of the body like a case, out of which the head, limbs and tail are protruded. Jaws toothless, covered with a horny coat.

4. Emydosaurians. Body fusiform, covered with square bony plates placed in longitudinal lines. Limbs 4, free. Vent linear, longitudinal. Jaws with teeth.

5. Amphisbenians. Body elongate, cylindrical, covered with square imbedded plates, placed in cross rows. Limbs none or very short, weak. Vent transverse, plaited. Jaws with teeth.

These orders appear to be analogous to the following orders of Mammalia and Birds.

| *Reptiles.* | | *Mammalia.* | *Birds.* |
|---|---|---|---|
| Lizards | Climbers | Primates | Insessores. |
| Serpents | Carnivorous | Feræ | Accipitres. |
| Emydosaurians | Aquatic | Cete | Anseres. |
| Tortoises | Large-hoofed | Ungulata | Gallinæ. |
| Amphisbenians | —— ? | Glires | Grallæ. |

## Sect. I. SCALY REPTILES, (Squamata).

Body covered with overlapping or granular scales. Skull formed of separate bones. The ear-bone external, and only articulated to the skull. Tongue free, elongate, nicked at the tip, often extensile. The lungs free in the cavity of the thorax. Vent a linear cross slit. The male organ and vagina forked. Oviparous, rarely ovoviviparous: the eggs when deposited covered with a more or less coriaceous shell.

### Order I. LIZARDS, (Saura).

Mouth not dilatable, jaws toothed, the lower jaw-bones being united by a bony suture in front. Eye generally with distinct eyelids. Drum of the ear generally distinct, exposed. Limbs 4, distinct, rarely in such a rudimentary state as to be hidden under the skin. Toes clawed. Body elongate, rounded, covered with imbricated or granular scales. Ribs distinct, mobile, and with a distinct sternum. Tail elongate, tapering, rarely prehensile, generally covered with whorls of scales. Egg with hard skin. The young not undergoing any metamorphosis.

*Synopsis of the Families.*

Suborder I. Leptoglossæ. *Tongue flat, elongate, end bifid.*

Tribe I. *Cyclosaura.* Scales of the belly square, in cross bands; of the back and tail rhombic and imbricate, or circular and subgranular. Tongue elongate, flattened, free, nicked, or with 2 elongate, cylindrical, horny tips. Eyes diurnal, with 2 valvular lids. Feet for walking. Toes unequal, compressed.

a. *Head with small many-sided shields. Tongue sheathed at the base.*

1. Monitoridæ. Head-shields flattish, scales small. Old world and Australasia.

2. Helodermidæ. Head-shields and scales of body convex, tubercular. Teeth with a groove behind. New world.

b. *Head with large regular shields. Tongue mostly free at the base.*

* *Sides flattish, covered with small often granular scales.*

3. Teidæ. Supra-orbital plate horny. Teeth solid, rooted. Scales small, granular, often with larger plates. New world.

4. LACERTINIDÆ. Supra-orbital plate bony. Teeth hollow, rooted. Scales small, granular or lozenge-shaped. Old world.

** *Sides with a distinct longitudinal fold covered with small granular scales.*

5. ZONURIDÆ. Ears distinct. Limbs distinct, or rarely quite hidden.

6. CHALCIDÆ. Ears hidden under the skin. Limbs very short; femoral pores none. Lateral fold indistinct.

*** *Sides rounded, covered with scales like those on the back.*

7. ANADIADÆ. Scales of the back and sides thin, imbedded, smooth, in alternating cross series; of the tail elongate, smooth, in longitudinal series. Ears distinct. Femoral pores distinct.

8. CHIROCOLIDÆ. Scales of the back imbricate, 6-sided, lanceolate, keeled, narrow, in cross series; of the tail in rings, alternating with each other. Ears hidden. Femoral pores distinct.

9. CERCOSAURIDÆ. Scales of the back, sides, and upper part of the tail keeled, in longitudinal series. Limbs 4: feet for walking.

10. CHAMÆSAURIDÆ. Scales imbricate, all elongate, rhombic, keeled, in longitudinal series, the keels forming longitudinal ridges. Limbs simple, undivided. Temple scaly.

Tribe II. *Geissosaura.* Scales of the belly and (almost always) of the back and sides quincuncial, rounded, imbricate. Sides rounded. Tongue narrow, short, flat, end slightly nicked. Head with regular shields.

a. *Eyes distinct, exposed, eyelid rudimentary. Head conical.*

11. GYMNOPHTHALMIDÆ. Head-shields normal. Nostrils lateral, in a nasal shield. Limbs 4 or 2. Body fusiform.

12. PYGOPIDÆ. Head-shields normal. Nostrils over the upper edge of the first labial. Pupil round or oblong. Abdominal shields 6-sided, in 2 or 3 series. Tail with a central series of larger shields. Limbs 2, posterior. Australasia.

13. APRASIADÆ. Head-shields normal. Nostrils in a suture between the nasal and first labial, (sometimes united ?). Limbs none. Ventral and dorsal scales nearly similar. Australasia.

14. LIALISIDÆ. Head-shields subimbricate, scalelike. Cheeks scaly. Nostrils in a small single nasal on ridge of the face.

b. *Eyes distinct, eyelids distinct, connivent. Head conical.*

15. SCINCIDÆ. Rostral shield moderate, triangular. Nostrils in a plate between the frontal and labial shields.

16. OPHIOMORIDÆ. Rostral moderate, triangular. Nostrils in a notch on edge of nasal and the supernasal shields.

17. SEPSIDÆ. Rostral rather large, square. Nostrils in a notch in the hinder edge of the rostral.

18. ACONTIADÆ. Rostral large, cuplike. Nostrils in the rostral, with a narrow slit to its hinder edge.

c. *Eyes hidden under the skin.*

19. TYPHLINIDÆ. Head conical. Rostral shield cuplike. Nostrils in the rostral shield, with a slit to its hinder edge.

20. TYPHLOPSIDÆ. Head short, depressed. Rostral shield elongated, extended up the forehead. Nostrils in an elongated nasal shield.

Suborder II. PACHYGLOSSÆ. *Tongue thick, convex, attached to the gullet at the base.*

Tribe III. *Nyctisaura.* Scales of the belly small, rhombic, imbricated; of the back and sides granular. Tongue thick, short, convex, end slightly nicked. Eyes nocturnal; eyelids circular, not connivent, pupil linear, erect. Feet for walking; toes subequal, scaly beneath, and generally dilated.

21. GECKOTIDÆ. The Old and New World.

Tribe IV. *Strobilosaura.* Scales of the belly small, rhombic, imbricate; of the back and sides imbricate. Tongue thick, short, convex, end slightly nicked. Eyes diurnal, with valvular eyelids; pupil round. Feet for walking; toes unequal, compressed.

22. IGUANIDÆ. Teeth on the inner side of the jaw-bone. New world.

23. AGAMIDÆ. Teeth on the edge of the jaw-bones. Old world and Australasia.

Tribe V. *Dendrosaura.* Scales of the belly, sides and back granular. Tongue elongate, subcylindrical, wormlike, very exsertile. Eyes globular, very mobile, with a small, central, round opening. Toes equal, united into two opposing groups.

24. CHAMELEONIDÆ. Teeth on the edge of the jaw-bone. Old world.

## Suborder I. Slender-tongued Lizards, (Leptoglossæ).

### Tribe I. Cyclosaura.

Scales of the belly square (very rarely rhombic, keeled), in cross bands; of the back and tail rhombic, imbricate, or circular and subgranular, placed in cross rings; of the sides generally granular, rarely like the back. Tongue elongate, flattened, base sometimes sheathed, generally free, only attached to the gullet by a long frenum, end with 2 elongate, cylindrical, horny tips. Tail elongate, with whorls of scales, generally conical, tapering, sometimes compressed, with 2 elevated crests above.

A. *Head with small many-sided shields. Tongue sheathed at the base. Sides flattish, granular.*

### Family I. Monitors, (Monitoridæ).

Head with minute polygonal shields. Teeth adnate to the inner side of the jaws. Tongue elongate, slender, retractile into a sheath at its base. Scales small, roundish, placed in cross rings; those of the sides like those of the back. Legs 4, strong. Toes 5-5, compressed, unequal. Thighs poreless. Superorbital plate bony. Old world, near water.

*Synopsis of the Genera.*

A. *Tail round, without any keel above.*

1. Psammosaurus. Nostrils large, oblique, near the eyes.
2. Odatria. Nostril moderate, longitudinal, near the apex of muzzle.

B. *Tail compressed, with a keel formed of 2 rows of scales above.*

3. Regenia. Nostrils large, oblique, near the eyes. Toes short.
4. Empagusia. Nostrils large, oblique, anterior. Toes short.
5. Uaranus. Nostrils oblong, longitudinal, subcentral. Toes elongate.
6. Monitor. Nostrils round, subcentral.
7. Hydrosaurus. Nostrils round, anterior. Teeth small.

A. *Tail round, without any keel above.* Terrestrial.

Gen. 1. Psammosaurus, *Fitz.*

Nostrils ovate, oblique, near the orbits. Tail roundish, not keeled above, with convex sides, unarmed. Scales not pierced. Toes unequal, rather elongate. Teeth slender, acute.

The Ouaran. Psammosaurus Scincus, *Gray, Ann. Nat. Hist.* i. 392. *Wagler, Syst.* 165. Uaranus Scincus, *Merrem, Tent.* 59. *Gray, Griffith, A. K.*, i. 27. Tupinambis griseus, *Daud. Rept.* viii. 352. Monitor terrestre, *Cuv. R. A.* ii. 26. *Schinz, Rept. t.* 32, *f.* 2. Ouran de Forskal, *Geoff. Rept. Egypt. t.* 3, *f.* 2, *t.* 4, *f.* 14, 15. Tupinambis arenarius, *I. Geoffr. Rept. Egypt. Dum. et Bib. E. Gen.* iii. 471.

Grey, obscurely banded with an obscure streak on each side of the head and neck.

*a.* Young, in spirits. Pale brown, with pale cross bands; tail with dark rings; head and neck with 2 black streaks on each side; side of face black cross-lined. North Africa. Presented by Sir J. Gardner Wilkinson.

*b, c.* Adult, stuffed and in spirits. N. Africa. *Presented by* James Burton, jun.

*d.* Half grown, stuffed. The dark mark rather visible. N. Africa. Presented by Sir J. G. Wilkinson.

*e, f.* Adult, stuffed. N. Africa. From Mr. Warwick's collection.

The Caspian Ouaran. Psammosaurus (?) Caspicus, *Eichw. Zool. Spe.* iii. 190, *t.* 1, *f.* 8—10. *Fauna Casp.* 48, *t.* 7—9, bones. Inhab. Caspian Sea. Mus. Moscow, a doubtful species.

2. Odatria, *Gray.*

Nostrils ovate, longitudinal, subanterior. Teeth compressed, acute. Tail elongate, round, not keeled above, scales large, sharply keeled, subspinose. Back with elongate, narrow, keeled scales. Ventral shield elongate. Toes rather unequal, elongate.

The Dotted Odatria. Odatria punctata, *Gray, Ann. Hist.* ii. 394. *Grey, Trav. Aust.* ii. 422. *Zool. Erebus & Terror, t.* Monitor tristis, *Schlegel, Abbild.* 73.

Grey olive, with narrow black reticulated lines, leaving large hexagonal spots. Head, limbs and tail blackish, with a few pale spots, dark banded. Ventral shield twice as long as broad. Tail round, scales over the eye small, granular. Male? with a tuft of conical spine-like scales on each side of the vent.

*a.* Half-grown, in spirits. Male? with tuft of spines. Western Australia. From Mr. Buchanan's collection.

*b.* Adult, stuffed. N.W. Australia. From Mr. Gould's collection.
*c.* Young, stuffed. Blackish, with cross row of ocellated spots. Port Essington. From Mr. Gould's collection.
*d.* Very young, in spirits. Grey, with numerous narrow cross bands, without tuft of spines. W. Australia. From Mr. Turner's collection.
*e.* Young, in spirits. Olive blackish, with cross row of white rings, head closely white-speckled, limbs white-dotted. W. coast of Australia. From Mr. Gould's collection.

The Eyed Odatria. Odatria ocellata, *Gray, Zool. Erebus & Terror, t.*

Black, with rather large yellow rings; limbs and tail yellow-spotted; tail round, scales of the tail broad, oval, spinose; scales over the eyes small, granular; ventral shields twice as long as broad.

*a.* Adult, in spirits. N.W. coast of Australia.

The Timor Odatria. Odatria Timorensis. Monitor Timorensis, *Gray, Griffith, A. K.* i. 36. *Gray, Ann. N. H.* i. 394. *Dum. et Bib. E. Gen.* iii. 473. Tupinambis viridimaculatus, *Daud.*

Black, yellow-dotted, dots forming rings and spots, head yellow and black dotted; scales over the orbits small, granular, of forehead larger; ventral shields nearly as broad as long; tail slightly compressed above, subtriangular, base of tail unarmed.

*a.* Half-grown, in spirits. Timor. From the Leyden Museum.

B. *Tail with a compressed keel above, formed of two rows of scales. Nostrils large, oblong, oblique.* Aquatic.

### 3. Regenia.

Nostrils large, oblong, oblique, near the orbit; tail shortish, thick, doubly keeled above, scales oblong, bluntly keeled; toes short, subequal; teeth rounded; scales large, convex, surrounded with numerous granulations. Head short.

The White-throated Regenia. Regenia albogularis. Tupinambis albogularis, *Daud. Rept.* iii. 72, *t.* 32. *Gray, Griffith, A. K.* ix. 28. *Ann. N. H.* i. 393. *Dum. et Bib. E. G.* iii. 495. *A. Smith, Illust. S. A. Zool. t.* 2. Monitor Gillii. *A. Smith, Zool. Journ.* Uaranus ornatus, var. *Merrem, Tent.* 59. M. exanthematicus, var. Capensis, *Schlegel, Abbild.* 71.

Dark brown, with large white spots, pale beneath, with a dark streak on each side of the back of the neck; nostrils near the orbit; scales rather large, of the head convex.

*a—c.* Adult, stuffed. S. Africa. From the S. African Museum.

The Eyed Regenia. Regenia ocellatus. Uaranus ocellatus, *Ruppell, Atlas N. A.* 21, *t.* 6. *Dum. et Bib. E. G.* iii. 469. *Schinz*, *t.* 33, *f.* 2. *Gray, Griffith, A. K.* ix. 25. Tupinambis exanthematicus, *Daud, R.* iii. 80? *Act. Soc. H. N. Par.* 1790. 95, *t.* 5, *f.* 3? M. exanthematicus, var. *Schlegel, Abbild.* 70.

Nostrils rather further from the orbit; scales large, of the neck largest, of the head tubercular.

*a.* Stuffed. Senegal. From M. Parzudaski's collection.

4. Empagusia, *Gray.*

Nostril large, oblong, oblique, in front of the muzzle; tail as long as the body and head, tapering, roundish, with a double-edged keel above, scales sharply keeled; toes rather short, subequal; teeth acute; scales ovate, keeled. Head short.

The Indian Empagusia. Empagusia flavescens, *Gray, Ann. N. H.* i. 393. Monitor flavescens, *Gray, Zool. Journ.* iii. 228. *Griff. A. K.* ix. 25. *Illust. Ind. Zool. t.* . Uaranus Russelii, *Schlegel, MSS.* U. Piquotii, *Dum. et Bib. E. G.* iii. 483, *t.* 35, *f.* 5. M. exanthematicus, var. Indica, *Schlegel, Abbild.* 70.

Olive, with yellowish cross bands; head-shields subequal; eyebrow with a central series of larger plates.

*a, b.* Adult, stuffed. India. From M. Piquot's collection.
*c, d.* Adult, stuffed. Nepal. Presented by H. B. Hodgson, Esq.
*e.* Young, stuffed. Black, with narrow, irregular, often interrupted white cross bands, beneath white, with black cross bands; head with a black streak from the back angle of the eye. India. Presented by Genl. Hardwicke.

M. Hardwickii, *Gray, MSS. B. M.*

5. Uaranus. Uaranus part, *Merrem.*

Nostrils oblong, rather oblique, in the centre between the apex of the muzzle and the orbits; tail elongate, compressed, with a double-edged keel above; toes elongate, unequal, strong. Head elongate.

a. *Shields over the orbits small, subequal.*

The Heraldic Uaran. Uaranus heraldicus. Monitor heraldicus, *Gray, Griff. A. K.* 25. *Ann. N. H.* i. 393.

Black, with cross rows of pale-eyed spots, beneath pale, black-banded; shields over the orbits small, subequal.

*a.* Half-grown, stuffed. India.
*b, c.* Adult and half-grown, stuffed. India.
*d.* Adult, stuffed. India, Nepal. Presented by H. B. Hodgson, Esq.
*e—h.* Half-grown, young. India.
*i.* Very young. Olive, with black and white spots. India.
*j, k.* Half-grown, stuffed. India. From Mr. Warwick's collection.

The Lunated Uaran. Uaranus lunatus.

Nostrils large, nearly central; shields over orbit small, subequal; dark brown, with lunate bands, directed backwards on the neck, and forwards on the body, and with cross bands on the tail; belly and under side of tail whitish.

*a.* Half-grown, stuffed. India.

The Philippine Uaran. Uaranus ornatus.

Nostrils large, central; shields over orbit small, subequal; olive, neck and front of the body with pale-spotted, broad, black cross bands; the hinder part of the body and tail with pale spots.

*a.* Half-grown, in spirits. Philippine Islands. From Mr. Cuming's collection.

Dumeril's Uaran. Uaranus Dumerilii. Monitor Dumerilii, *Muller, Verh. Rept. t.* 6. *Schlegel, Abbild.* 78.

Brown, with obscure cross bands, with a black spot on side of neck; shields of the head and over the orbit nearly equal, moderate; scales large, convex.

*a.* In spirits. Borneo. From Mr. Argent's collection.

The Rough-necked Uaran. Uaranus rudicollis.

Nostrils large, nearer the orbit than the end of the muzzle; shields over the orbits nearly square, the hinder central ones rather larger; scales of the back triangular, keeled, of the neck large, prominent; muzzle elongate; black, with white streaks on back of neck, and bands across the back.

*a.* Adult, stuffed. Philippine Islands. From Mr. Cuming's collection.

b. *Scales over the orbit small, with a central longitudinal series of larger plates.*

The Clouded Uaran. Uaranus nebulosus. Monitor nebulosus, *Gray, in Griff. A. K.* ix. 27. *Dum. et Bib. E. Gen.* iii. 483, *t.* 35, *f.* 2, 3, *head and scales.* M. nebulatus, *Schlegel, Abbild.* 75, *n.* 7.

Nostril large, rather nearer the orbit than the end of the muzzle; orbital shield with a larger series; back of neck with converging dark streaks.

*a.* Half-grown, in spirits.

*b.* Young, in spirits. Olive, with white-eyed black rings. India.

*c.* Half-grown, stuffed. From Mr. Warwick's collection.

C. *Tail triangular, compressed, and with a doubly toothed crest above. Nostril small, round.* Aquatic.

6. Monitor, *Gray.* Polydædalus, *Wagler.* Uaranus, *Fitz.*

Nostrils small, round, in the middle between the apex of the

muzzle and the front angle of the eye; tail elongate, compressed, with a double-edged keel above; toes elongate, unequal, strong; teeth rounded.

a. *Scales over the eyes equal. Nape with lunate bands.* African.

The NILOTIC MONITOR. Monitor Niloticus, *Gray, Ann. N. H.* i. 393. *Geoff. Rept. Egypt.* i. 121, *t.* 3, *f.* 1. Lacerta Nilotica, *Hasselq. Iter.* 361. *Forsk. Fauna, t. Schneid. Amp.* ii. 195. *Daud. Rept.* iii. 51. *Dum. et Bib. E. Gen.* iii. 476. *Wagler, Syst.* 164. ? Lacerta Capensis, *Sparm. Voy. t. Gray, Ann. N. H.* i. 393. Tupinambis ornatus, *Daud. Rept.* viii. 352. *Merrem, Tent.* 59. Stellio Saurus, *Laur. Syn.* 56. Tup. elegans, *Daud. R.* iii. 37, young. Tup. stellatus, *Daud. R.* iii. 59, *t.* 31, young. Monitor pulcher, *Leach, Bowd. Voy. Africa. Gray, Griff. A. K. t.* young.—*Seba*, i. *t.* 94, *f.* 1, 2. *t.* 100, *f.* 3. *t.* 105, *f.* 1. ii. *t.* 49, *f.* 2. *t.* 97, *f.* 2. *t.* 105, *f.* 1.

Head grey, when young with concentric rows of white spots; back of neck with lunate cross bands; under side of body and head greyish, white-spotted when young, black cross-banded; the shield over the eyes flat, subequal, many-sided.

*a.* Adult, stuffed. Egypt. Presented by James Burton, jun. Esq.
*b.* Young, in spirits. Africa.
*c.* Half-grown, stuffed. Egypt. Presented by Sir J. G. Wilkinson
*d—f.* Half-grown and young, stuffed. N. Africa?
*g.* Young, in spirits. Ashantee. Presented by T. E. Bowditch, Esq. The specimen described by Dr. Leach.
*h—j.* Young, in spirits. Africa.
*k.* Young, in spirits. W. Africa. Presented by W. Raddon, Esq
*l.* Young, in spirits. Niger Expedition. Presented by Dr. W. Stanger.
*m.* Young, in spirits. Ashantee. From the Leyden Museum.
*n.* Young. Africa, Fernando Po. From the Voyage of the Ethiope.
*o—q.* Young, stuffed. S. Africa, Cape of Good Hope.

b. *Scales over the eyes equal. Nape coloured like the back.*

The INDIAN MONITOR. Monitor Dracæna, *Gray, Ann. N. H.* i. 393. Lacerta Dracæna, *Linn. S. N.* 360. *Shaw, Zool.* iii. 218, *t.* 67. Stellio Salveguardia, *Laur. Syn.* 57. Tupinambis Bengalensis, *Daud. Rept.* iii. 67. *Gray, Griff. A. K.* ix. *t.* 26. *Dum. et Bib. E. Gen.* iii. 480. T. Indicus, *Daud. Rept.* iii. 46, *t.* 30. T. Cepedianus, *Daud. Rept.* iii. 42, *t.* 29. Uaranus guttatus, U. punctatus, and U. Argus, *Merrem*, 58—60. Monitor gemmatus, *Guérin, Icon. t.* 3, *f.* 1. *Seba*, i. *t.* 85, *f.* 2—4. *t.* 86, *f.* 4, 5. *t.* 101. *t.* 105, *f.* 2. ii. *t.* 32, *f.* 3. *t.* 68, *f.* 2.

Brown, black-spotted or yellow-eyed when young; nostrils cen-

tral; scales over the eyes flat, small, subequal, of the head rather larger.

*a*, *b*. Young, in spirits. India.

Gould's Monitor. Monitor Gouldi, *Schlegel*. Hydrosaurus Gouldii, *Gray*, *Ann. N. H.* i. 394. *Grey*, *Trav.* ii. 422.

Neck with 2 yellow streaks on the side; scales over the eyes small, granular, of forehead larger; ventral shields small, longer than broad.

*a*—*d*. Half-grown, stuffed. North-western Australia. From Mr. Gould's collection.

*e*, *f*. Half-grown, stuffed. Western Australia.

*g*. Young, stuffed. Western Australia.

*h*—*j*. Adult, stuffed. Port Essington. Presented by Capt. Chambers, R.N.

*k*. Adult, stuffed. Port Essington. From Mr. Gould's collection.

*l*, *m*. Half-grown, stuffed. Adelaide. Presented by C. D. Fortnum, Esq.

*n*, *o*. Half-grown, in spirits. Western Australia. From Mr. Gould's collection.

c. *Scales over the eyes with a larger central series.*

The Dotted Monitor. Monitor chlorostigma, *Cuv. Mus. Paris*. *Gray*, *Griff. A. K.* ix. *Schlegel*, *Abbild. t.* 22, *f.* 6, head. *Gray*, *Ann. Nat. Hist.* i. 394. *Dum. et Bib. E. G.* iii. 489.

Olive, with greenish dots; nostrils rather nearer the muzzle than the eyes; head-scales flat; scales over the orbit unequal, the central series very large.

*a*. Adult, stuffed. From the Paris Museum.

*b*. ? Young, in spirits. Black, with cross bands of white rings; belly black-banded; head white-dotted. Presented by Capt. Sir E. Belcher, R.N.

7. Hydrosaurus, *Wagler*. Tupinambis, *Fitz*.

Nostrils oblong, longitudinal, near the apex of the muzzle; tail elongated, with a double-edged keel above; toes unequal, elongate; teeth compressed, sharp-edged, denticulated: scales small.

* *Scales over the orbit equal. Neck with lunate bands.*

The Lace Lizard. Hydrosaurus varius, *Gray*, *Ann. N. H.* i. 394. Lacerta varia, *Shaw*. *White*, *Jour. N. S. W.* 246, *t.* 3, *f.* 2. *Nat. Misc.* iii. *t.* 83. *Merrem*, *Tent.* 58. *Dum. et Bib. E. Gen.* iii. 491. *Gray*, *King's Voy.* ii. 427. Tupinambis variegatus, *Daud. Rept.* iii. 76. Hydrosaurus v. *Wagler*, *Syst.* 164

Scales over the orbit very small, equal.

*a*. Half-grown, in spirits. New Holland.
*b*, *c*. Adult, stuffed. New Holland. Presented by J. Gould, Esq.
*d*, *e*. Adult, stuffed. New Holland.

Bell's Lace Lizard. Hydrosaurus Bellii. Uaranus Bellii, *Dum. et Bib. E. Gen.* iii. 493, *t.* 35, *f.* 1. *Gray, in Grey, Trav. Austr.* ii. 422.

Pale, body and tail with broad black cross bands; scales of the orbit dilated, equal.

Inhab. ——? Mus. Bell.

** *Scales on the orbit equal, small. Neck spotted like the back.*

The Gigantic Lace Lizard. Hydrosaurus giganteus, *Gray, Zool. Erebus and Terror, t.* —.

Brown, back and tail with cross bands of large black-edged white spots; neck and under side of body pale, with large black round reticulations; legs white-spotted; toes rather short, strong; shields of the head subequal, convex, over the orbits very small, granular.

*a*. Adult, length 78 inches. N. coast of New Holland. Presented by Capt. Stokes, R.N.

*** *Scales over the orbits with a larger central longitudinal series.*

The Two-streaked Lace Lizard. Hydrosaurus Salvator. H. bivittatus, *Wagler, Syn.* 164. *Gray, Ann. N. H.* i. 394. Stellio Salvator, *Laur. Syn.* 56. *Shaw, Zool.* iii. 214, *t.* 66. Tupinambis bivittatus, *Kuhl. Beitr.* 125. *Boie, Iris*, xviii. 205. *Dum. et Bib. E. G.* iii. 486. Uaranus vittatus, *Lesson, Voy. Belang.* 307. Monitor elegans, *Gray, Zool. Jour. Seba*, ii. *t.* 30, *f.* 2. cop. *Shaw, Zool. t.* 66. Lacerta Monitor? *Herm. Obs.* 254. M. marmoratus, *Weigmann, N. Act.* xviii. *t.* 14? U. Cumingii, *Martin, Proc. Z. Soc.* 1838, 69? *Seba*, ii. *t.* 30, *f.* 2. *t.* 86, *f.* 2. Tupinambis exilis, *Reinw.*

*a*. Half-grown, in spirits. China. Presented by J. Lindsay, Esq.
*b*, *c*. Half-grown, stuffed. India?
*d*. Half-grown, stuffed. S. Africa. From Dr. Krauss' collection.
*e*. Half-grown, in spirits. Celebes. From the Leyden Museum.

The Green Lace Lizard. Hydrosaurus prasinus. Monitor prasinus, *Muller, Verhan. Rept. t.* 5. *Schleg. Abbild.* 78, *t.* 22, *f.* 5.

Green, with narrow dark cross-bands, generally placed in pairs, those of the neck lunate, the rest transverse, with a brown streak on the cheek behind the nostril; head-shields flat, rather large, those over the orbits larger in a series.

Inhab. West coast of New Guinea. Mus. Leyden.

? Monitor inornatus, *Schlegel, Abbild.* 72. Inhab. "N. Holland," *Schlegel.*

### Fam. II. Caltetepons, (Helodermidæ).

The head depressed, covered with many-sided subequal convex shields; muzzle rounded; rostral, nasal, and front labial plates thin, flat; teeth on the inner side of the jaws, incurved, with a groove on the front of the inner side. Femoral pores none. Tongue ——— ? The back and sides with oblong, 6-sided, very convex, shield-like scales. The belly with oblong, rather convex plates. Tail round, with oblong, convex scales above, and flat, elongate, thin plates beneath. Legs 4, strong; toes 5-5; claws curved.

#### 1. Heloderma, *Weigm.* Trachyderma, *Wagler.*

The Caltetepon. Heloderma horridum, *Weigm. Isis*, 1829, 627. *H. M. t.* 1. *Wagl. Icon. t.* 18. *Schinz, Rept. t.* 33, *f.* 1. *Dum. et Bib. E. G.* iii. 499, *t.* 36, bad. De Caltetepon, *Hernand, H. N. Hisp.* 315.

Brown, yellow-spotted.

*a.* Half-grown. Mexico.
*b.* Adult. Mexico. Presented by Dr. John Richardson.

B. *Head with large regular shields. Tongue mostly free at the base.*

* *Sides flattish, granular.*

### Fam. III. Teguexins, (Teidæ).

Head pyramidical, covered with regular many-sided shields; supraorbital plate horny; teeth solid, rooted; tongue elongate, flat, free (rarely slightly sheathed at the base). Scales of the back granular or keeled, rhombic. Sides flat, covered with small granular scales. Throat scaly, with a double collar, rarely indistinct. The New or Western world.

*Synopsis of the Genera.*

I. *Throat with 2 cross folds, with larger 6-sided scales between.*

A. *Ventral shields small, long, smooth. Tongue contractile.*

1. TEIUS. Toes 5-5. Femoral pores distinct.
2. CALLOPISTES. Femoral pores none. Toes 5-5.

B. *Ventral shields broad, smooth.*

* *Tongue elongate, sheathed at the base. Teeth compressed.*

3. AMEIVA. Toes 5-5. Teeth 3-lobed.

** *Tongue not sheathed, free at the base.*

4. CNEMIDOPHORUS. Teeth compressed longitudinally, 3-lobed. Toes 5-5.
5. DICRODON. Teeth compressed transversely, bifid. Toes 5-5.
6. ACRANTUS. Teeth compressed transversely, bifid. Toes 5-4.

II. *Throat with a collar of large shields.*

a. *Collar and ventral shields keeled. Tail round.*

7. ACANTHOPYGA. Scales of back large, of sides granular.
8. CENTROPYX. Scales of back and sides moderate, in many series.

b. *Collar and ventral shields smooth, elongate. Tail round.*

9. EMMINIA. Scales of back rhombic, keeled, equal.

c. *Collar and ventral shields smooth, elongate. Tail compressed.*

10. CROCODILURUS. Scales of back equal, similar.
11. CUSTA. Scales of back unequal. Throat with a collar of large scales.
12. ADA. Scales of back unequal. Throat with 2 plaits.

I. *Throat with two cross folds, the scales in the middle between them 6-sided. Abdominal shields smooth. Tail rounded. Nostrils between two large nasal plates.*

a. *Abdominal shields small, longer than broad: dorsal scales small equal.* Teiina.

1. Teius, *Merrem.* Podinema and Ctenodon, *Wagler.* Tupinambis, part, *Daud.* Monitor, *Fitz.* Salvator, *Dum. et Bib.* Exypneustes, *Kaup.*

Toes 5-5. Tail round. Teeth of young adnate to the inner side of the jaws, pectinated in front and 3-lobed on the side.

As the animal grows, the base of the teeth becomes surrounded by the bone of the jaw, and the front teeth lose their lobes and become more rounded.

The Teguexin. Teius Teguexim, *Gray, Ann. N. H.* i. 276. T. Monitor, *Merrem, Tent.* 61. Variegated Lizard, *Shaw, Zool. t.* 73. Lacerta Teguexin, *Linn. Mus. Ad.* 45. *S. N.* i. 368. Tupinambis Monitor, *Daud.* 111, 20. *Spix, R. B. t.* 19. Seps marmoratus, *Laur. Syn.* 59. *Seba, t.* 96, *f.* 23. *Pr. Max. Abbild. t.* from life. Monitor Meriana, *Blainv. Bull. Soc. Phil.* 1816,111. *Dum. et Bib.* v. 85. Le Sauvegarde, *Merian, Surin. t.* 70, *t.* 4. Teyongouajou, *Azara, Parag.* 387.

Green, black-varied, with 2 series of white spots on the upper part of each side; the cheek with 2 plates behind the nasal, the hinder one being rather the largest, and followed by an arched series of square plates on the front of the eye; the upper edge of the temple with 4 or 5 small square equal shields; the hinder lateral teeth of adult very large, rounded.

*a—c.* Adult and half-grown, in spirits. Brazils. From M. P. Clausen's collection.

*d—f.* Adult, stuffed.

*g.* Half-grown, stuffed.

The Spotted Teguexin. Teius nigropunctatus. Tupinambis nigropunctatus, *Spix, Braz. t.* 20. *Dum. et Bib. E. Gen.* v. 90. *Wagler, Syst.* 153.—*Seba,* i. 150, *t.* 96, *f.* 2, 3.

Green, black-varied, back with 6 series of white spots; cheek with only one plate behind the nasal, with a series of narrow shields under the eyes, the first rather the largest and trigonal; the upper edge of the temple with 5 rather large square shields; the cheek-teeth 3-lobed; gular shields large.

*a, b.* Half-grown and younger, in spirits. The first suborbital shield large to the middle of the third upper labial.

*c.* Half-grown, in spirits, like *a.* Brazils. Presented by Lord Stuart.

*d*. Young, in spirits. First suborbital shield smaller to the suture between the third and fourth upper labial. Black, with a narrow white band and edges of the head-shields.
*e*. Half-grown, stuffed.
*f*. Adult, in spirits. Partly bleached.
Lacerta Teguexin, *Shaw*, *B. M.*
*g*. Adult, in spirits. Olive, black-spotted, with rows of black-edged white spots. Demerara. Presented by Col. Sabine, R.E.

2. CALLOPISTES, *Gravenh.* Aporomera, *Dum. et Bib.*

Toes 5-5, slightly compressed, the hinder rather tubercular on the inner edge; femoral pores none; teeth separate; tongue not sheathed at the base; palate toothed; cheek-teeth compressed, arched, the hinder lobed; nostrils between 2 plates; ventral plates small, oblong, 4-sided, smooth, rather longer than broad; tail slightly 4-sided.

The YELLOW-SPOTTED CALLOPISTES. Callopistes flavipunctata. Aporomera flavipunctata, *Dum. et Bib. E. Gen.* v. 72. — *Seba*, i. 174, *t.* 110, *f.* 4, 5.
Brownish black, yellow-dotted.
Inhab.

The EYED CALLOPISTES. Callopistes celestis. Ameiva celestis, *D'Orbig. Voy. A. M. t.* 5, *f.* 6. Aporomera ornata, *Dum. et Bib. E. G.* v. 76.
Olive, with 4 series of white-edged black spots.
*a*, *b*. In spirits. Tail orange beneath. Chili. From Mr. Bridge's collection.

b. *Abdominal shields smooth, broader than long. Thighs shielded beneath.* Ameivina.

3. AMEIVA, *Cuv.* Cnemidophorus part, *Wagler.* Cnemid. sect. A. *Weigm.*

Toes 5-5; femoral pores distinct; teeth tricuspid; the palate toothed or toothless; tongue very long, narrow, contractile, and slightly sheathed under the glottis, with very long filiform tips.

* *Ventral shields* 14—18*-rowed, caudal scales elongate, keeled.*

The LARGER AMEIVA. Ameiva major, *Dum. et Bib. E. G.* v. 177.
Heel simple; ventral shields 16 or 18 rowed.
Inhab. Cayenne, (Mus. Paris).

The PALE-HEADED AMEIVA. Ameiva punctata, *Gray*, *Ann. N. H.* i. 277.
Ventral shields 14-rowed; the scales of the hinder sides of the arm above the elbow rather larger rhombic, above the hind heel

granular, minute; outer row of shields under the hind legs 7, the second and third the largest and nearly equal; olive, with black wavy lines, sides darker, with white spots on the lower part; head in spirits pale reddish.

*a.* Adult, in spirits. Demerara. Presented by Col. Sabine, R.E.
*b.* Half-grown, in spirits. Demerara?
A. undulata, *Gray*, *Ann. N. H.* i. 277.

** *Ventral shields* 10-*rowed; caudal scales elongate, keeled.*

The AMEIVA. Ameiva Surinamensis. Seps Surinamensis, and S. Zeylanicus, *Laur. Syn.* 59. Lacerta graphica, *Daud. R.* iii. 112. L. gutturosa, *Daud. R.* iii. 119. L. literata, *Daud. R.* iii. 106. Teius Ameiva, *Merrem. Spix, Braz. t.* 23, ♂. *Pr. Max. Beytr. t* good. T. lateristriga, and T. tritæniatus, *Spix, Bras. t.* 24, *f.* 2, ♀. A. vulgaris, *Licht. Dum. et Bib. E. G.* v. 100. A. maculata, *Gray*, *Ann. N. H.* i. 277. A. Argus, *Fitz. Guérin, Icon. Rept. t.* 4, *f.* 1. Cnemidophorus undulatus, *Weigm. H. Mex.* 27? *Seba*, i. *t.* 88, *f.* 2, ♂. *t.* 90, *f.* 7, ♂. *t.* 103, *f.* 3, 4, ♂. *t.* 88, *f.* 1, ♀. *t.* 89, *f.* 3, ♀. ii. *t.* 63, *f.* 4, ♀.

Shields on the hinder part of the arm just above the elbow rhombic, scarcely larger than the others; the fore foot with 2 or 3 large prominent scales at the back of the palm; heel of the hinder foot simple above; preanal shields 3 or 5, in two series, nearly equal; olive, nape and front of back black-speckled; side with cross bands of black-edged white spots; the outer part of the under side of the hind legs with 8 plates, the second, third and fourth nearly equal, the rest smaller.

*a.* Adult, in spirits. Larger preanal scales 3, 1 anterior, 2 posterior; ventral shields nearly 12-rowed. Demerara. Presented by Dr. Hancock.
*b.* Half-grown, in spirits. Preanal plates 5, 2 in front, 3 behind.
*c.* Young, in spirits. Preanal plates 3.
*d.* Young, in spirits. Preanal plates rather irregular, 5, 2 front largest, shield on back of elbow larger.
*e.* Young, in spirits. West Indies. From Mr. Scrivener's collection.

The SPOTTED AMEIVA. Ameiva guttata.

Shields on the hinder part of the fore arm just above the elbow rhombic, rather larger; fore foot with 2 or 3 larger tubercles behind; heel of the hinder foot with small scales above; the outer part of the under side of the hind leg with 6 plates, the second and third much the largest, especially the second, the rest gradually smaller; preanal shields in 2 series, the hinder series largest; olive, black-speckled, sides dark, with cross rows of black-edged white spots.

*a*. Half-grown, in spirits. Demerara.
*b*. Half-grown, in spirits. Brazils. From M. Clausen's collection.
*c*. Adult, in spirits.
*d*. Half-grown, in spirits.
*e, f*. In spirits. Pernambuco. Presented by Mrs. J. P. G. Smith.

The Shielded Ameiva. Ameiva scutata.

Shields of hinder part of arm just above the elbow rhombic, rather larger; fore feet with 2 or 3 tubercles; heel of hind feet with small granular scales behind; the outer part of the under side of the hind leg with 6 or 7 shields, the second and third largest, the second nearly twice as large as the third, rest graduated; preanal shields in 3 rows, the 2 anterior moderate, central one behind the other, with a cross row of 12 gradually diminishing scales behind them.

*a*. Young, in spirits.

Plee's Ameiva. Ameiva Plei, *Dum. et Bib. E. Gen.* v. 114.

Shields on the hinder part of the arm just above the elbow dilated transversely; scales above and behind the heel small, granular; the shields of the outer series under the hind legs very large.

Inhab. St. Domingo and Martinique, (Mus. Paris).

Sloane's Ameiva. Ameiva dorsalis, *Gray, Ann. N. H.* i. 277. Ameiva Sloanei, *Dum. et Bib. E. Gen.* v. 107. Lacerta major, &c. *Sloane, Jam.* ii. 333, *t.* 272, *f.* 3. *Edwards, Birds*, iv. *t.* 203.

Shields of hinder part of arm just above the elbow 6-sided transverse; heel of the hind feet with a group of acutely tubercled scales behind; the temples are granular; the hinder lower labials small, separated from the gular shields by series of granular scales; preanal shields in 3 series, subequal; shields under the hinder legs 6 or 7, the second and third larger, the third the largest; olive, back with a pale streak commencing at the nape and becoming gradually wider; sides with a series of whitish spots.

*a*. Half-grown, in spirits. Two front preanal shields one before the other.
*b*. Half-grown, in spirits. Preanal shields in 3 series, the first of 1, the second of 2 shields. Jamaica. Presented by R. Heward, Esq.

MacLeay's Ameiva. Ameiva trilineata, *Gray, Ann. N. H.* v. 114.

Olive, with 3 pale streaks; shields of the hinder part of the fore arm just above the elbow rather dilated, rhombic; heel of the hind feet with a small group of acute tubercles behind; temple granular; the hinder lower labial and gular plates small, with 1 or 2 series of granular scales between them; the second and third shields on the outer part of the under side of the hind leg very

large, the second nearly as long as wide; preanal shields 6, the hinder 4 subequal; the outer series of abdominal shields small; occipital shields 3, large; tail with a white streak on each side.

*a*—*c*. Half-grown, in spirits. Cuba. Presented by W. S. MacLeay Esq.

*d*. Adult male. Spine on heel large. Cuba. Presented by W. S. MacLeay, Esq.

Auber's Ameiva. Ameiva Auberi, *Cocteau Sagra, Cuba Rept.* 76, *t.* 6. *Dum. et Bib. E. G.* v. 112.

Shields of the hinder part of the fore arm above the elbow rather dilated; heel of the hind feet with a group of acute tubercles behind; temples granular, shielded in front; the hinder lower labial shields few and large, without any granules between them and the gular plates.

Inhab. Cuba, Mus. Paris.

**** Ventral shields 8-rowed. (Caudal plates keeled?).*

The Waved Ameiva. Ameiva undulatus, *Weigm. MSS.* Cnemidophorus undulatus, *Weigm. H. Mex.* 27.

"Scales of the middle of the throat and mesoptychis very large, shield-like, scarcely imbricate; greenish, sides varied with black and white spots."

Inhab. Mexico. Mus. Berlin.

The Murine Ameiva. Ameiva murinus, *Weigm.* Cnemidophorus murinus, *Weigm. H. Mex.* 27.

"Scales of the chin and throat subequal, of the *mesoptychis* rounded or ovate, many-sided; first upper labial shield entire; sides and thighs white-spotted; adult, back one-coloured, young, bluish-green, with 8 pale streaks."

Inhab. Surinam. Mus. Berlin.

***** Ventral shields 8-rowed. Upper caudal plates rhomboidal, keelless.*

The Lined Ameiva. Ameiva lineolata, *Dum. et Bib. E. G.* v. 119.

The upper part of the back of the elbow with some rather larger rhombic scales; the second and third shields on the outer side of the under part of the leg very large; scales at the upper part of the back of the heel small, granular.

Inhab. St. Domingo. Mus. Paris, (1 spec.)

4. Cnemidophorus, *Wagler.*—*Dum. & Bib.*

Toes 5-5; femoral pores distinct. Cheek-teeth compressed, the hinder 3-lobed; tongue short, base simple, rather dilated and swollen, and with 2 rather short depressed tips; palate toothed; intermaxillary teeth 6; nostrils in, or rather within the edge of, the nasal plate.

* *Front of the upper arm with rhombic scales. Ventral shields in* 10 *series.* Cnemidophorus.

The Murine Taraguira. Cnemidophorus murinus, *Dum. et Bib. E. G.* v. 126. Seps murinus, *Laur. Syn.* 63. *Seba, Thes.* ii. *t.* 105, *f.* 2. Lacerta Ameiva, *Daud. Rept.* iii. 98.

Nostrils in the suture between 2 plates; front edge of the upper arm with small rhombic scales only, the second shield on the under side of the hind leg largest, nearly as broad as long; purplish (in spirits), with a series of large bluish spots on each side of the back.

*a.* Half-grown, in spirits, discoloured?

The Long-tailed Taraguira. Cnemidophorus longicauda. Ameiva longicauda, *Bell, Zool. Beagle*, 28, *t.* 15, *f.* 1.

Nostril in the middle of the nasal; scales of the front of the fore arm large, rhombic, smooth, in 2 series; front upper labial trigonal, angle rather truncated; shields under the legs 6-sided, third largest; tail elongate, scales rhombic, strongly keeled; white, upper part and sides with numerous black streaks.

*a.* In spirits. Tail imperfect. Bahia Blanca, N. Patagonia. Presented by Charles Darwin, Esq.

** *Front of the upper arm shielded. Ventral shields in* 8 *series.* Taraguira.

The Tagaguira. Cnemidophorus lemniscatus, *Dum. et Bib. E. G.* v. 128. Lacerta lemniscatus, *Daud. Rept.* iii. 175, *t.* 36, *f.* 1, young. *Petiv. Gaz. t.* 150, *f.* 11. *Seba*, i. 144, *t.* 91, *f.* 3. Ameiva lineata, *Gray, Ann. N. H.* i.

Blue, back black-lined, sides white-spotted; nostrils on the suture of the nasal shield; front of the fore arm with 2 complete series of dilated shields; male with a sharp spur on each side the vent; second, third and fourth shields on the outer side on the under part of the hind leg largest, transverse and subequal; preanal plates 4, in 2 series.

*a, b.* Male, adult and half-grown, in spirits. Tropical America.

The Shielded Taraguira. Cnemidophorus scutata.

Blue, with black dorsal streaks, sides paler spotted; nostrils in the suture of the nasal shields; front of the upper fore arm with 2 series of dilated shields; the second and third shields on the outer side of the under part of the hind legs very large, third largest, nearly as long as broad; preanal plates 3, large; males with a spur on each side of the vent.

*a, b.* Male, adult, and female, half-grown, in spirits.

The Six-lined Taraguira. Cnemidophorus sexlineatus *Dum. et Bib. E. G.* v. 131? Lacerta sexlineata, *Linn. S. N.* i. 364.

*Daud. R.* iii. 183. *Holbrook, N. A. Herp.* i. 63, *t.* 6. Ameiva lineata, var. 3, *Gray, Ann. N. H.* i. 287.

Nostrils within the edge of the nasal plate; first upper labial plate 4-sided, narrower above; olive, with 3 or 4 yellow streaks on each side; the front of the fore arm with 2 or 3 series of shields.

Var. 1. Fore arm with 2 series of shields; preanal plates 3; occipital plate variable.

*a—c.* Half-grown, in spirits, partly bleached. N.? America.

*d.* Young, in spirits. N. America. Presented by E. Doubleday, Esq.

*g.* Young. Preanal shields rather irregular. N. America. From Mr. Drummond's collection.

Var. 2. Front of the fore arms with 3 series of shields; preanal plates 2, one before the other, (hinder 2 soldered?).

*e.* Half-grown, in spirits, partly bleached.

*f.* Young, in spirits. N. America. Presented by E. Doubleday, Esq.

The Lizard-like Taraguira. Cnemidophorus lacertinoides, *Dum. et Bib. E. G.* v. 134.

Nostrils within the edge of the nasal plate; front upper labial plate quadrilateral; the upper part of the fore arm with 2 series of shields; olive or blue, with 2 yellow streaks with a series of black spots between them on each side.

*a.* Chili, Monte Video. Presented by Charles Darwin, Esq.

**** Fore arm* ——— ? *Ventral shields* 8*-rowed.*

Deppe's Taraguira. Cnemidophorus Deppii, *Weigm. H. Mex.* 29.

"Ashy with 8 pale greenish streaks, sides spotless; scales of the chin small, of the middle of the throat larger, of the middle of the fold moderate, imbricate, rhombic; the front upper labial shield denticulated; male not spurred."

Inhab. Mexico. Mus. Berlin.

Sack's Taraguira. Cnemidophorus Sackii, *Weigm. H. Mex.* 29.

"Greenish, with black brown cross bands and 2 pale streaks; scales of the throat subequal, small, oblong, of the middle of the fold moderate, imbricate."

Inhab. Mexico. Mus. Berlin.

The Spotted Taraguira. Cnemidophorus guttatus, *Weigm. H. Mex.* 29.

"Ashy, throat with white longitudinal spots, sides olive, blackish, spotless, edged with 2 streaks; scales of the middle of the throat larger, of the middle of the fold large, nearly rhombic, imbricate."

Inhab. Mexico. Mus. Berlin.

5. DICRODON, *Dum. et Bib.*

Tongue moderately large, rather dilated, not contracted and sheathed at the base, with 2 depressed tips; palate not toothed; cheek-teeth flattened, transverse, and bluntly 2-lobed at the tip; nostrils on the edge of the nasal plate. Toes 5-5, rather compressed, not keeled beneath.

The SPOTTED DICRODON. Dicrodon guttulatum, *Eydoux, MSS. Dum. et Bib. E. G.* v. 138.

Olive, white-spotted, with 2 white streaks on each side.

Inhab. Peru. Mus. Paris, (1 spec.)

6. ACRANTUS, *Wagl.* Teius, *Fitz.*

Toes 5-4, the outer hind toe rudimentary and short. Tail round, with elongated keeled scales. Cheek-teeth flattened transversely, and bluntly 2-lobed at the tip; palate toothed.

The CARAPOPEBA. Acrantus Teyou. Lacerta Teyou, *Daud. Rept.* iii. 195. Tejus viridis, *Merr. Tent.* 60. *Gray, Ann. N. H.* i. 277. *Dum. et Bib. E. G.* v. 143. Ameiva oculata, *D'Orbig. Voy. A. M. t. 5, f.* 1, (toes wrong). Carapopeba, *Marc. Braz.* 238.

Green, with a series of black spots and 2 pale streaks on each side; front of arm shielded; the third shield on the outer side of the under part of the hind leg very large; preanal shield 4-sided.

*a.* Half-grown, in spirits. The second and third shields on one of the legs united into one. From the Berlin Museum.

II. *Throat with a collar of large shields.*

a. *Collar and ventral shields lanceolate, imbricate, keeled. Thighs scaly beneath. Nostrils between two nasal plates. Tail round. Toes 5-5, compressed, not keeled beneath. Tongue enlarged behind, and sheathed at the base. Palate toothed. Teeth compressed, 3-lobed.* Centropicina.

7. ACANTHOPYGA, *Gray.* Pseudoameiva, *Fitz.*

Scales of the back larger, keeled in 17 or 25 series, keels continuous, of the sides granular; collar toothed.

The STRIATED SPINE-TAIL. Acanthopyga striata, *Gray. Ann. N. H.* i. 278. Lacerta striata, *Daud. Rept.* iii. 247, from *Merrem, Wetter Ann.* i. *t.* 1. *Pr. Max. t.* 13. *Guérin, Icon. t. Gray, Griffith, A. K.* i. 31. *Dum. et Bib. E. G.* v. 151. *Weigm. H. M.* 9.

Olive, with white streaks, sides spotted.

Inhab. Surinam. Mus. Paris and Leyden.

8. CENTROPYX, *Spix.* Trachygaster, *Wagler.* Acanthopyga, *Leach.* Pseudoameiva, *Fitz.*

The scales of the back moderate, ovate, keeled, in many (40) series, of the sides rather smaller, of the belly very large; scales of the collar not prolonged beyond their free edge.

The Spurred Centropyx. Centropyx calcaratus, *Spix*, *Br.* *t.* 22, *f.* 2. *Gray*, *Ann. N. H.* i. 278. *Guérin*, *Icon. Rept. t.* 4, *f.* 3. *Dum. et Bib. E. G.* v. 149. *Schinz*, *R.* 97, *t.* 36, *f.* 2. *Weigm. H. M.* 9. C. intermedius, *B.M.*

Olive-green, with 3 paler streaks and 2 series of black spots on the back, beneath greenish white.

*a.* Adult, in spirits. Female. Alabama. Presented by Thomas Bell, Esq.
*b.* Adult, in spirits, discoloured.
c. Adult, in spirits. Trop. America. Presented by Col. Sabine, R.E.

b. *Collar and ventral shields 4-sided, smooth, broader than long. Thighs beneath shielded. Tail round, tapering. Toes 5-5. Inguinal pores distinct. Collar indistinct.* Emminiina.

9. Emminia.

Scales of back rhombic, keeled, subequal, keels forming continuous ridges; of the tail whorled, of the upper part elongate, 4-sided, keeled, keels forming ridges, of the lower side broad, smooth, in 2 series; of the sides of body smaller, ovate, convex, sub-imbricate; of the sides of the neck granular; of the throat broad, shield-like, in 2 longitudinal series; collar indistinct, formed of 3 shields. Tongue not sheathed at the base. Head-shields 19; the gullet shielded all over. Nostrils between 2 nasal shields, over the middle of the upper surface of the first labial. Toes 5-5, unequal, slender, rather compressed, each with 2 rows of rather convex scales beneath. Femoral pores 1 (or 2) at the base of each thigh.

The Emminia. Emminia olivacea.

Olive, back with a central brown streak, and a brown-edged pale streak on each side; sides greyish, beneath silvery, with a few minute brown dots; gular shields 9, anterior single, with 4 pair and a single one on each side between the suture of the fourth and fifth pairs and the angle of the mouth.

*a.* Young, in spirits. Pernambuco. Presented by Mrs. J. P. George Smith.

c. *Collar and ventral shields 4-sided, smooth, as long as broad. Tail compressed, 2-crested above. Toes 5-5, not keeled below.* Crocodilurina.

10. Crocodilurus, *Spix*. Ada, part, *Gray*.

Scales of the back equal. Cheek-teeth on the inside of the jaws, the hinder tricuspid; tongue not sheathed at the base, with 2 depressed tips; palate not toothed; nostrils between 3 shields. Femoral pores distinct. Toes 5-5, rather compressed, not keeled beneath, the outer hinder toothed on the side.

The LIZARDET. Crocodilurus Lacertinus, *Dum. et Bib. E. G.* v. 46. Tupinambis lacertinus, *Daud. Rept.* iii. 85. C. amazonicus, *Spix, Braz. t.* 20. *Gray, Ann. N. H.* i. 278. *Wagler, Icon. t.* 15. *Weigm. H. Mex.* 8. C. ocellatus, *Spix, Braz. t.* 21, *Jun.*

Brown, with black spots; throat and belly yellow; young, sides black, with reddish white spots, beneath whitish, black-spotted.

Inhab. Brazils, Guiana. Mus. Paris.

10. ADA, *Gray.* Dracæna, *Daud.* not *Linn.* Thorictes, *Wagl. Dum. et Bib.*

Scales of the back unequal, larger oval. Tail with a serrated crest on each side above. Throat with a double plait. "Teeth on the edge of the jaw," the hinder 3-lobed; palate toothless; nostrils in the keel, in the middle of the longitudinal suture between the two nasal shields.

The GREAT DRAGON. Ada Guianensis. Dracæna Guianensis, *Daud. Rept.* ii. 423, *t.* 28. *Wagler, Syst.* 153. *Weigm. H. M.* S. Le Dragonne, *Lacep. Q. O.* i. 243, *t.* 16. *Bannot, Erpet. E. M. t.* 3, *f.* 2. Teius crocodilinus, *Merrem, Tent.* 62. Thorictes Dracæna, *Dum. et Bib. E. G.* v. 56.

Olive, beneath yellow, brown varied.

Inhab. Tropical America. Mus. Paris.

11. CUSTA, *Fleming.* Neusticurus, *Dum. et Bib.* Dracæna, *Guér.*

Scales of the back unequal. Tail with a serrated crest on each side. Throat with a collar of large scales. Tongue not sheathed at the base; palate toothless; cheek-teeth compressed, 3-lobed; nostrils lateral, small, in the centre of a large oval plate. Toes 5-5, not keeled beneath, nor toothed on the edge.

The SMALLER DRAGON. Custa bicarinata, *Fleming, Phil. Zool.* ii. 274. Lacerta bicarinata, *Linn. S. N.* i. 361. *Guérin, Ic. t.* 3, *f.* 2. *Dum. et Bib. E. G.* v. 64, *t.* 49. Thorictis Guianensis, *Wagler, Syst.* 153, junior. Monitor crocodilinus, *Gray, Griffith, A. K.* xi. *t.* 16.

Brown, with large blackish spots and cross bands; sides and beneath yellowish.

*a.* Young, in spirits. Tropical America.

### Fam. 4. Lizards, (Lacertinidæ).

Head pyramidical, covered with regular many-sided shields; supraorbital plate rigid. Throat scaly, often with a cross fold in front, and a collar of larger scales behind. Tongue elongate, flat, free at the base, exsertile, long-forked. Teeth hollow rooted. Scales granular or rhombic, keeled. Sides flat, covered with small granular scales. Inhab. Old or Eastern World and Australasia.

*Synopsis of the Genera.*

I. *Nostril erect, in the lower hinder angle of the nasal shield, just above the labial shield, with* 1 *or* 2 *shields behind it. Eyelid distinct.*

A. *Toes simple, compressed, not keeled nor fringed. Collar distinct.*

a. *Scales granular or* 6*-sided, elongate. Posterior nasal shield single. Collar distinct.*

1. Zootoca. Lower eyelid scaly, opaque.

b. *Scales granular or* 6*-sided, elongate. Posterior nasal shields* 2*, small, one above the other. Collar distinct.*

3. Thetia. Lower eyelid transparent.

2. Lacerta. Lower eyelid opaque. Chin-fold distinct. Abdominal shields narrowed behind.

4. Teira. Lower eyelid opaque. Chin-fold distinct. Abdominal shields square.

5. Nucras. Lower eyelid opaque. Chin-fold indistinct. Abdominal shield narrow behind. Preanal shields one before the other.

c. *Scales rhombic, keeled. Posterior nasal shields* 2*, small, one above the other.*

6. Notopholis. Collar and throat-fold distinct.

7. Tropidosaurus. Collar and throat-fold indistinct.

d. *Scales rhombic, keeled. Posterior nasal shields single. Collar indistinct.*

8. Algira. Ventral shields roundish, thin.

B. *Toes keeled beneath, and sometimes fringed on the sides. Scales keeled. Posterior nasal single.*

9. Acanthodactylus. Toes fringed on the sides.

10. Psammodromus. Toes not fringed on the sides. Collar indistinct.

II. *Nostril horizontal on the ridge, between three swollen scales, one between the nostril and labial. Toes keeled beneath or fringed on the side.*

a. *Eyelid distinct.*

11. SCRAPTEIRA. Toes depressed, fringed on the edge, not keeled beneath. Collar indistinct.

12. EREMIAS. Toes compressed, keeled beneath, not toothed on the edge. Collar distinct. Preanal shields small, in several series, in central series one behind the other.

13. MESALINA. Toes compressed, keeled beneath, not toothed on the edge. Collar distinct. Preanal shield single, semicircular, with 1 or 2 arched series of smaller ones round it.

14. CABRITA. Toes rather compressed, keeled beneath, not fringed on the sides. Collar none.

b. *Eyelid rudimentary. Eye circular, exposed.*

15. OPHIOPS.

I. *Nostrils erect, lateral, subapical, in the lower hinder angle of the nasal plate just above the labial, and with 1 or 2 posterior nasals behind it. Eyelid distinct. Dorsal scales somewhat granular. Ventral shields broad, smooth.*

A. *Toes simple, compressed, not keeled beneath nor fringed on the sides.*

a. *Scales granular or elongate, 6-sided. Collar distinct.* Lacertina.

† *Posterior nasal single.*

1. ZOOTOCA, *Wagler.* Lacerta, part, *Linn.*

Nostrils on the side of the nose, in the lower hinder angle of the nasal shield, with 1 small posterior nasal. Lower eyelid opaque, scaly. Throat with a narrow cross fold under the ears. Abdominal shields square. Temple scales small, with a larger central one. Preanal shield single, surrounded by smaller ones.

* *Ventral shields 6-rowed. Dorsal scales rather long, 6-sided.*

The SCALY LIZARD. Zootoca vivipara. Lacerta vivipara, *Jacq. N. A. Helv.* i. 33, *t.* 1. *Dum. et Bib. E. G.* v. 205. L. crocea, *Wolf. Sturm's Fauna Germ. t.* 4. *Eversm. N. M. Mosq.* iii. 347, *t.* 3, *f.* 1, 2. L. pyrrogaster, *Merrem, Tent.* 67. L. montana, *Mikan, Sturm, Fauna, t.* L. agilis, *Penn. B. Z.* iii. *t.* 3, *f.* 7. *Licht. Doubl.* 93. L. œdura, *Sheppard, Linn. Trans.* vii. 50 (male in summer). L. Schreibersiana, *Edw. Ann. S. N.* xvi. 83, *t.* 5, *f.* 5. *Dugés, Ann. S. N.* xvi. 37. L. chrysogaster, *Andrz.* L. unicolor, *Kuhl, Beit.* 121? L. praticola, *Evers. N. M. Mosq.* iii. 347, *t.* 30, *f.* 2. Z. Jacquini, and Z. Guerini, *Coct. Mag. Zool. t.* 9. Z. muralis, *Gray, Ann. N. H.* 279.

Ventral shields 8-rowed; the temple covered with many-sided shields with a larger central shield; olive, back with a white-edged blackish streak on each side, and a central black streak, belly orange (in summer), black-spotted.

Var. 1. Black. Ireland.

Lacerta nigra, *Wolf. F. G. t.*

*a—d.* Adult, in spirits. Devonshire.
*e.* Adult, in spirits. Cheltenham.
*f.* Adult in spirits. S. of Europe.
*g, h.* Adult, in spirits. Dalmatia. From M. Heckle's collection. Lac. crocea, *Heckle.*
*i—k.* Adult, in spirits. Pool-heath. Presented by W. Thompson. Esq.

** *Ventral shields* 6 *or* 8 *rowed. Dorsal scales small, broad,* 6*-sided.*

The Tiliquerta. Zootoca muralis. Lacerta muralis, *Merrem, Tent.* 67. *Licht. Doubl.* 92. *Edw. Ann. S. N.* xvi. 67, 84, *t.* 6, *f.* 1, *t.* 7, *f.* 3, *t.* 8, *f.* 2. *Duges, Ann. S. N.* xvi. 380, *t.* 15, *f.* 5. *Dum. et Bib. E. G.* v. 230. *Bonap. F. Ital. t.* —. Seps muralis, *Laur. S.* 61, 162, *t.* 1, *f.* 4. *Koch, Sturm, Faun. t.* —. Seps sericeus, *Laur.* 61, 160, *t.* 2, *f.* 5. *Merrem, Tent.* 63. Ameiva Tiliquerta, *Meyen, Syn.* 28. *Daud. Rept.* iii. 167. L. agilis, *Daud. Rept.* iii. 211, *t.* 38, *f.* 1. Lezard gris, *Daub. Q. Ovip.* 636. L. Brongniartii, *Daud. Rept.* iii. 221. *Fauna Franc. t.* 9, *f.* 1. L. maculata, *Daud. Rept.* iii. 208, *t.* 37, *f.* 2. L. olivacea, and L. puccina, *Rafin.*? L. Merremia, and L. fasciata, *Risso, E. Merid.* iii. 86, 87. Podarcis Merremi, *Fitz. MSS.* L. saxicola, *Eversm. Mem. Mosq.* iii. 349, *t.* 30, *f.* 1. Z. quadrilineata, *Gray, Ann. N.H.* i. 279.

Temple covered with small tubercular scales, with a large central circular shield; ventral plates 6-rowed, middle row rather the narrowest; head rather depressed; scales of the back small, circular, convex; collar continuous, even, not toothed, of 11 scales; green.

*a—c.* Adult, in spirits. Green, sides black-varied, with 2 pale streaks. Sardinia. Presented by the Rev. W. Hennah.
*d—f.* Adult, in spirits. Larger; green, varied with black, with a pale streak on the upper part of each side. Sardinia.
*g, h.* Adult. Blue, with a central series of black spots. Malta. Presented by J. Ritchie, Esq.
*i—k.* Adult. Smaller; blue, spotless. Shores of the Mediterranean. Presented by the Rev. W. Hennah.
*l.* Adult, in spirits. Like *d.* Portugal. Presented by T. Brightwell, Esq.
*m.* Half-grown, in spirits, bad state. Like *g.* S. Europe. Presented by T. Bell, Esq.

*n*. Adult, in spirits. Like *d*. S. Europe. Presented by T. Bell, Esq.
*o*, *p*. Adult, in spirits. Malta. Presented by Miss Emilie Attersoll.
*q*. Adult, in spirits. S. Europe. Presented by the Hon. A. Russell.

The LONG-HEADED LIZARD. Zootoca oxycephala. Lacerta oxycephala, *Schlegel, Mus. Leyd. Dum. et Bib. E. G.* v. 235.

Temple covered with small swollen scales, with a larger central one; dorsal scales oval, rather convex; ventral shields 6-rowed.

*a*? Young, in spirits. Spain? or Madeira? Presented by P. B. Webb, Esq.

The TAURIAN LIZARD. Zootoca Taurica. Lacerta Taurica, *Pallas, Z. Ross. Asiat.* iii. 30. *Ratke, Acad. Petersb.* iii. 302, *t.* 2, *f.* 1, 4. *Dum. et Bib. E. G.* v. 225. L. Peloponesiaca, *Bib. Exp. Morea, Rept.* 66, *t.* 10, *f.* 4, (young). L. muralis, *Bib. Exped. Morea, Rept. t.* 10, *f.* 2, ♂, *f.* 3, ♀. L. agilis, *Menest. Cat.* 60, 209.

Temple covered with unequal, flat, polygonal and some circular shields; scales of the back small, circular, convex; olive, with 2 white streaks on each side; throat-fold distinct.

Inhab. Crimea, Morea, Corfu and Sicily.

The STRIPED LIZARD. Zootoca tæniolata. Lacerta tæniolata, *A. Smith, Mag. N. H.* ii. 93. *Dum. et Bib. E. G.* v. 247.

Scales of the temples ovate, 6-sided, equal, convex, of the back rounded; subcollar of 9 scales; ventral shields 8-rowed; hinder legs not reaching the shoulders.

Inhab. S. Africa. Mus. Dr. A. Smith and Paris.

**** Ventral shields 12-rowed.*

LORD DERBY'S ZOOTOCA. Zootoca Derbiana.

Olive, with a white streak on each side of the back; scales of the back roundish, convex, with a few minute granules between them; temples with flat scales, and a larger round central plate; abdominal shields 12, middle series largest, the outer ones with the outer side rather oblique inwards.

*a*. Adult, in spirits. Olive, with 4 rows of large, square, black spots. Australia? Sydney? Presented by the Earl of Derby.
*b*. Half-grown? (female?), in spirits. Olive, with a broad white streak edged above with black on each side of the back. Australia? Presented by the Earl of Derby.

**** Ventral plates 12- or 14-rowed, the front row larger, forming a regular collar in front of the chest.*

Gallot's Zootoca. Zootoca Galloti. Lacerta Galloti, *Dum. et Bib. E. G.* v. 238.

Olive, with interrupted black streaks; scales of temple very small, with a rather larger central disk; of the back disco-quadrangular, rather flattened; ventral shields 12- or 14-rowed; femoral pores 25 or 30.

*a, b.* In spirits. Madeira. Presented by P. B. Webb, Esq.

*†† Posterior nasal shields 2, small, one above the other.*

2. Lacerta, *Linn.? Bonap.* Podarcis, *Wagler.*

Nostrils lateral, erect, in the lower hinder angle of the nasal shield, with 2 posterior small scales, placed one over the other; throat with a narrow cross fold under the ears; abdominal shields square, the 2 central series narrower, with oblique sides; dorsal scales ovate, granular, thick, convex, small, not imbricate; lower eyelid opaque, covered with scales; temple with many-sided unequal ovate scales; preanal shield single, surrounded by smaller ones.

** Ventral shields 8- or 10-rowed. Dorsal scales circular, granular, side by side.* Lacerta.

The Eyed Lizard. Lacerta ocellata, *Daud, Rept.* iii. 125, *t.* 33. *Edw. Birds, t.* 202. *Pet. Gaz. t.* 92, *f.* 1. *Bonap. F. Ital. t. Licht. Doubl,* 92. *Edw. Ann. S. N.* xvi. 63, 82, *t.* 5, *f.* 1—10, *t.* 7, *f.* 6, *t.* 8, *f.* 4. *Duges, Ann. S. N.* xvi. 368, *t.* 15, *f.* 1, 2, 7, 8, 9. *Dum. et Bib. E. G.* v. 218. Lizard vert, *Lacep. Q. O.* i. 309, *t.* 20. *E. M. t.* 6, *f.* 3. L. margaritata, *Schinz. Abbild.* 986, 33, *f.* 3. L. Jamaicensis, *Daud,* iii. 149.

Green, reticulated or spotted with black, with large blue spots on the sides; temples covered with unequal polygonal convex scales.

*a.* Very large, in spirits, partly bleached. Senegal?
Lac. Senegalensis, *Gray, Ann. N. H.* ii. 279.

*b.* Adult, in spirits. Green, white or blue, closely dotted. S. Europe. Presented by Mr. B. Leadbeater.

*c.* Adult, in spirits. Black, netted and ringed with white specks. Portugal. Presented by J. Brightwell, Esq.

*d.* Half-grown, in spirits, bleached. S. Europe.

*e.* Young, in spirits, partly bleached. S. Europe.
Lac. Lepida, *Daud, R.* iii. 204, *t.* 37, *f.* 1.

*f, g.* Half-grown, in spirits. Scales rather rhombic, obscurely keeled. Algiers.

** *Ventral shields* 6-*rowed. Scales circular, granular.*

The SMOOTH LIZARD. Lacerta lævis, *Gray, Ann. N. H.* i. 279.

Greenish grey, beneath greenish white, front of legs black-spotted; dorsal scales roundish, 6-sided, convex; Preanal shields with an arched series of 6 rather large shields in front; temple with a large central circular disk, with flat, rhombic, smooth scales in front, and smaller, more convex ones behind.

*a.* Adult, in spirits. Europe.

*** *Ventral shields* 6-*rowed; dorsal scales elongate, keeled. Throat-scales large, broad.* Podarcis.

The GREEN LIZARD. Lacerta viridis, *Linn. S. N. Petiv. Gaz. t.* 95, *f.* 1. *Daud.* iii. 144, *t.* 34. *Wolf. Deut. Faun. t. Dum. et Bib. E. G.* v. 210. *Licht. Doub.* 92. *Exped. Morea, Rept. t.* 10, *f.* 1. L. varius, *Edw. Ann. S. N.* xvi. 64, 83, *t.* 4, *f.* 3. *Duges, Ann. S. N.* xvi. 372, *t.* 15, *f.* 3. L. chloronata, and L. Serpa, *Rafin.* Seps terrestris, *Laur. Syn.* 61, 166, *t.* 3, *f.* 1. L. elegans, *Andrz.* L. smaragdina, and L. bistriata, *Schinz, Rept.* 99, *t.* 37, *f.* 1, 2. L. bilineata, *Daud, Rept.* iii. 152, *t.* 35, *f.* 1.

Scales of temple inequilateral, many-sided, with a central larger one; of back granular, oblong, with shelving sides; throat-fold distinct.

Var. 1. Green, white-speckled.

*a.* Adult, in spirits. Dalmatia. From M. Heckle's collection.
" L. viridissima," *Heckle.*

*b—d* Adult, in spirits like *a.* S. Europe. From M. Heckle's collection.
" L. chloronotus," *Heckle.*

*e.* Adult, in spirits. S. Europe. Presented by the Hon. A. Russell.

*f—k.* Adult, in spirits. Turin. Presented by Prof. Bonelli.

*l.* Very large, old, in spirits, not good state. Tail forked. S. Europe.

*u, v.* Young and old, in spirits. Jersey. Presented by A. Christy, Esq.

*w.* Adult, in spirits. Xanthus, Asia Minor. Presented by C. Fellows, Esq.

Var. 2. Green, black-varied, with a pale streak on each side.
L. bilineata, *Daud. Rept.* iii. 152, *t.* 25, *f.* 1.

*m—n.* Adult, in spirits. Dalmatia. From M. Heckle's collection.
Lac. Tiliguerta, *Heckle.*

*o—q.* Adult, in spirits. Turin. Presented by Prof. Bonelli.

*r—t.* Adult, in spirits. S. Europe.

*x.* Adult, in spirits. Jersey. Presented by A. Christy, Esq.

M. Bibron confounds *Zootoca exigua* and *chalybdea*, which have the preanal plates of a *Nucras*, and *Lac. gracilis*, with those of an *Eremias*, with this species!

The Five-streaked Lizard. Lacerta strigata, *Eichw. Zool. Spec.* iii. 188. *Fauna Casp.* 70, *t.* 20, *f.* 4—6. Lac. quinquevittata, *Menetr.* Lac. Michahellesii, *Fitz.* Lac. viridis, var. *Dum. et Bib. E. G.* 210, 218.

Brown, black-spotted, with 5 narrow white streaks; scales of the temple large above and below, smaller in the centre.

Inhab. Caucasus, Syria, Dalmatia.

The Sand Lizard. Lacerta agilis, *Linn. Licht. Cat. Doub. Wolf. Sturm. Fauna, t. Bonap. F. Ital. t. Bell. B. R. t.* Lac. Europa, *Pallas.* Lac. vulgaris, *Muller, Z. D.* L. anguiformis, *Sheppard?* Lac. stirpium, *Daud. R.* iii. 153, *t* 35, *f.* 2. *Dum. et Bib. E. G.* v. 196. *Duges, Ann. S. N.* xvi. 376. *Edw. Ann. N. S.* xvi. 65, 83, *t.* 5, *f.* 4, *t.* 8. *f.* 1, 2. Seps varius, *Laur. Syn.* 62, 172, *t.* 3, *f.* 2. S. cærulescens, *Laur.* 62, 171, *t.* 1, *f.* 3. S. Argus, *Laur.* 61, 161, *t.* 1, *f.* 5. S. ruber, *Laur.* 62, 169, *t.* 3, *f.* 3. S. stellatus, *Schrank, F. B.* 117. *Koch, Sturm, F. t.* L. Laurenti, *Daud,. R.* iii. 227. L. arenicola, *Daud. R.* iii. 230, *t.* 38, *f.* 1. L. sepium, *Griffith, A. K.* ix. 116. *Seba*, i. *t.* 97, *f.* 1. ii. *t.* 4, *f.* 5. *t.* 79, *f.* 5. *Edw. Glean.* i. *t.* 244. Lac. rosea. L. catenata, *Fitz.*

The upper hinder nasal small, rather in front of the larger lower one; scales of the temple small, unequal, irregularly many-sided, often with a larger central one; throat-fold indistinct; brown, spotted or eyed with black, sides green, brown-eyed, beneath white.

*a.* Adult, in spirits. S. Europe. Presented by the Hon. A. Russell.

*b—d.* Young, in spirits. Sometimes with a small scale behind the lower hinder nasal. S. Europe. Presented by the Hon. A. Russell.

*e, f.* Adult, in spirits. Pool-heath, Dorsetshire. Presented by W. Thompson, Esq.

*g—i.* Adult in spirits. S. Europe.

### 3. Thetia.

Nostrils between the anterior and 2 superposed hinder nasal plates. Lower eyelid transparent. Throat with a slight cross fold under the ears. Collar feebly marked, not toothed. Temples covered with scales. Scales of the back round, smooth, granular. Preanal shield single, surrounded by smaller ones.

The Thetia. Thetia perspicillata. Lacerta perspicillata, *Dum. et Bib. E. G.* v. 249.

Scales of the temple small, granular, equal; of the back circular, convex; sub-collar of 11 scales; ventral shields 10-rowed.

Inhab. Algiers, (one young specimen, Mus. Paris).

4. Teira, *Gray*.

Nostril erect, in the hinder lower angle of the nasal, with 2 smaller posterior nasal shields. Lower eyelid opaque. Throat with a narrow cross fold under the ears, with small scales. Collar distinct, even. Abdominal plates all square, with parallel sides. Scales of the temple keeled, uniform; of the back, round, granular, smooth.

Duges' Teira. Teira punctata, *Gray*, *Ann. N. H.* i. 286. Lacerta Dugesii, *Edw. Ann. Sci. Nat.* xvi. 84, *t.* 6, *f.* 2? *Dum. et Bib. E. G.* v. 236. L. maderensis, *Fitz. Rept.* 51.

Dark blackish green, darker on the sides, closely and minutely white-speckled, beneath pale green; caudal scales obscurely keeled; ventral shield 6-rowed, square, with parallel sides.

*a*, *b*. Adult, back brown, minutely white speckled, not streaked. Madeira. Presented by T. Bell, Esq.

*c*—*i*. Adult and young. Back with a white streak on each side. Madeira.

*j*. Adult in spirits. Presented by M. Bibron from Mus. Paris.

*k*—*o*. Adult and young, in spirits. Madeira. Presented by A. Christy, Esq.

5. Nucras, *Gray*. Eremias, Sect. 1. *Gray*. Zootoca, *Eichw.*

Nostrils lateral, in the lower hinder angle of the nasal shield, with 2 posterior nasal shields. Lower eyelid opaque. The throat without any fold under the ears. Collar distinct, even, transverse. Abdominal plates rhombic, with the outer sides oblique and contracted behind. Temples covered with keeled scales. Preanal plates 2, triangular, small, one behind the other, with an oblong, 4-sided shield on each side of them.

* *Ventral shields* 8-*rowed*. S. African.

Laland's Lizard. Nucras Lalandii, *Gray*, *Ann. N. H.* i. 280. Lacerta Lalandii, *Edw. Ann. Sci. Nat.* xvi. 70, 84, *t.* 15, *f.* 6, *t.* 7, *f.* 5. *Dum. et Bib. E. G.* v. 241, *t.* 48. L. intertexta, *A. Smith*, *Mag. N. H.* ii. 93.

Scales of the temple oval, 6-sided, convex, equal; of the back nearly circular, swollen; ventral shields 8-rowed, 2 outer series smaller; the hinder legs not reaching to the armpits.

*a*. Adult, stuffed. Cape of G. Hope. From S. African Museum

*b*. Young, in spirits. Tail pale. Cape of Good Hope.

The Chequered Lizard. Nucras tessellata. Lacerta tessellata, *A. Sm. Mag. N. H.* ii. 92. *Dum. et Bib. E. G.* v. 244. L. livida, and L. elegans, *A. Smith*, *Mag. N. H.* ii. 92.

Scales of the temples ovate, hexagonal, equal, convex; of the back circular, rather small; sub-collar scales 9—13: ventral shields 8-rowed; hinder legs reaching nearly to the armpits.

Inhab. S. Africa. Mus. Dr. A. Smith, and Paris.

** *Ventral shields 6-rowed.* Russian.

The SMALL LIZARD. Nucras? exigua. Zootoca exigua, *Eichw. Zool. Spec.* iii. 188. *Fauna Casp.* ii. *t.* 10, *f.* 1—3. Lac. sylvicola, *Eversm. N. Mem. S. N. Mosq.* iii. 344, *t.* 31, *f.* 3. Lacerta viridis, young, *Dum. et Bib. E. G.* v. 218. Lacerta chloris, *Fitz.*

Blackish grey, with 3 white streaks, sides white-dotted, thighs white-spotted; scales of the temple large in front, small behind; of the back minute, very smooth; abdominal shields 6-rowed.

Inhab. Caucasus, Volga.

The STEEL BLACK LIZARD. Nucras? chalybdea. Zootoca chalybdea, *Eichw. Fauna Casp.* 73, *t.* 11, *f.* 1—3. Lacerta saxicola, *Eversm. N. Mem. Moscou*, ii. 325.

Violet brown, shining, black-dotted, sides obscurely banded, black-spotted; scales of the temple minute, with 3 larger ones in a central series; abdominal shields 6-rowed, middle one small.

Inhab. Caucasus.

b. *Scales rhombic, keeled, imbricate. Collar indistinct.* Algiraina.

† *Posterior nasal shields 2, small, one above the other.*

6. NOTOPHOLIS. Ageroides, *Bibron.* Notopholis part, *Weigm.* Lacerta, Sect. 1. *Dum. et Bib.*

Nostrils lateral, in the lower hinder angle of the nasal shield, with 2 smaller posterior nasal shields. Scales of the back large, rhombic, keeled, and distinctly imbricated. Throat with a distinct fold under the ears. Palate toothless. Preanal plate single, surrounded with small ones in front. Ventral shields in 6 rows, the outer and inner of each side narrower.

FITZINGER'S NOTOPHOLIS. Notopholis Fitzingeri, *Weigm. H. Mex.* 10. *Dum. et Bib. E. G.* v. 194. Lacerta nigra, *Mus. Vienna, not Wolf.*

Back and sides uniform, olive; scales of the back and sides equal, of the temple unequal, with granules in front and below; the hind leg not reaching the armpits; the preanal shield with only 1 or 2 small scales on each side of its hinder edge.

*a.* Adult, in spirits. Sardinia. From Dr. Heckle's collection.

The CAPE NOTOPHOLIS. Notopholis? Capensis.

Bluish olive, (dry); scales of the back and sides equal, large, strongly keeled, of the temple smaller, rhombic, rather convex, subequal.

*a.* Stuffed. Under side destroyed; tail reproduced. S. Africa.

The ALGERINE NOTOPHOLIS. Notopholis Moresticus. Algeroides Moresticus, *Bib. Voy. Morea, Rept.* 57, *t.* 10, *f.* 5. *Dum. et Bib. E. G.* v. 192. Algera Cuvieri, *Gray, Ann. N. H.* i. 283 ??

Back olive, with a yellow streak on each side, sides black, white-dotted; scales of the back and sides equal, of the temples rhombic, with a central larger one; preanal plates with 12 very small scales on each side of the hinder edge.

Inhab. Morea. Mus. Paris.

The BLACK-SPOTTED NOTOPHOLIS. Notopholis nigropunctata. Lacerta nigropunctata, *Dum. et Bib. E. G.* v. 190.

Olive, irregularly black-dotted; scales of the sides smaller than those of the back; temple-shield polygonal, with a large plate; the hind legs as long as the body.

Inhab. Island of Corfu. Mus. Paris, 1 spec.

7. TROPIDOSAURA, *Boie.* Trop. part, *Dum. et Bib.*

Nostril lateral, in the lower hinder angle of the nasal plates, with 2 plates behind it. Eyelid distinct, lower scaly. Temple with small equal scales. Collar indistinct, but a fold on each side before the shoulder. Shields of the throat, chest and belly thin, small, 6-sided, hinder edge rather rounded.

The MOUNTAIN TROPIDOSAURE. Tropidosaura montana, *Boie, Erp. Java, MSS. Dum. et Bib. E. G.* v. 172.

Brown, with a blackish streak; femoral pores 6 or 7 on each thigh; scales of the temple small.

Inhab. Java, *Boie.* Mus. Leyden.

†† *Posterior nasal shields single.*

8. ALGIRA, *Cuvier.* Psammurus, *Weigm.* Psammuros, *Wagler.* Trepidosaura, part, *Dum. et Bib.* Tropidosaurus, *Fitz.*

Nostril lateral, erect, in the lower hinder angle of the nasal with a single posterior nasal. Temple with keeled scales. Toes rather compressed, smooth, with a single series of imbricate scales beneath. Shields of the throat and belly thin, smooth, 6-sided, hinder edge rather rounded. Collar none, with a fold on each side of the neck. Preanal shields numerous.

* *Ventral shields* 6-*rowed.*

The ZERMOUMEAH. Algira barbarica, *Cuv. M. Paris. Guerin, Icon. t.* 5, *f.* 2. Lacerta Agaria, *Linn. S. N.* 363. *Daud. Rep.* iv. 269. *Lacep. Q. O.* i. 367. *Dum. et Bib. E. G.* v. 168. *Wagl. Syst.* 156. *Weigm. H. M.* ii. The Zermoumeah, *Shaw, Barb.* 324 ?

Fulvous or coppery, whitish beneath; femoral pores 15 or 18.

*a.* In spirits. Algiers.

** *Ventral shields* 10-*rowed.*

The CAPE ZERMOUMEAH. Algira capensis, *A. Smith, May. N. H.* ii. 94. *Dum. et Bib. E. G.* v. 171.

Reddish yellow above, with 2 or 3 series of black spots or streaks; femoral pores 10—13; head-shields rough, grooved, frontal with a groove.

Inhab. S. Africa. Mus. Dr. A. Smith.

DUMERIL'S ZERMOUMEAH. Algira Dumerilii. "Tropidosaura Dumerilii, *A. Smith.*" *Dum. et Bib. E. G.* v. 167, (not described).

Inhab. S. Africa. Mus. Dr. A. Smith.

B. *Toes keeled beneath, and sometimes fringed on the sides. Scales rhombic, keeled. Posterior nasal shield single.* Psammodromina.

9. ACANTHODACTYLUS, *Fitzinger.* Podarcis, part, *Wagler.* Meroles, and Scrapteira, *Gray.* Ida, *Gray, MSS.*

Nostrils lateral, roundish, in the lower hinder angle of the nasal, with a single posterior nasal. Palate not toothed. Eyelid distinct, scaly. Collar distinct, scaly. Scales of the back rhomboidal, imbricate, smooth or keeled. Ventral shields rhombic, contracted behind, with oblique sides. Toes 5-5, rather compressed, keeled beneath and toothed on the sides. Preanal shields numerous, the central often placed one behind the other.

* *The central series of ventral shields narrowed on each side behind. Dorsal scales equal, smooth.*

The RAPID SPINED-FOOT. Acanthodactylus velox. Lacerta velox, *Duges, Ann. S. Nat.* xvi. 383, not syn. A. vulgaris, *Dum. et Bib. E. G.* v. 268. Scrapteira pulchella, and S. leiocerea, *Gray, Ann. N. H.* i. 280.

Scales of the back small, equal, smooth; the front edge of the ear granular; the large shield under the eyes triangular, coming down between the fourth and fifth upper labial; collar of 9 or 11 scales, the middle largest; ventral shields 10-rowed; upper labial shields 5.

*a.* Adult, in spirits. N. Africa?
*b.* Half-grown, in spirits. N. Africa. From the Berlin Museum.
*c.* Adult, in spirits. N. Africa? Presented by P. B. Webb, Esq.

BELL'S SPINED-FOOT. Acanthodactylus Bellii.

Scales very small, granular, equal, smooth; front edge of the ear granular; temple with minute scales, with a narrow elongate shield on the upper edge; preanal shields forming a lozenge-shaped spot; black, with 6 white streaks; hind legs with 3 series of white spots.

*a—d.* In spirits. Algiers.

The Cape Spined-foot. Acanthodactylus Capensis, *A. Smith, Illust. Z. S. Africa, Rept. t.* 39.

Scales of the back and sides small, circular, closely set and slightly convex, of the side of the base of the tail triangular, keeled, ending in a spine, of the middle of the tail oblong, quadrangular, keeled, spinose, of the temple granular; abdominal plate quadrangular; brown, sides with 2 white streaks; male, sides black, with a central series of white spots.

Inhab. S. Africa, Great Namaqua Land. Mus. Dr. A. Smith.

The Shielded Spined-foot. Acanthodactylus scutellatus, *Dum. et Bib. E. G.* v. 272. Lacerta scutellata, *Audouin, Rept. Egypt.* 172. *Suppl. t.* 1, *f.* 7. *Edw. Ann. S. N.* xvi. 85, 94, *t.* 6, *f.* 3.

Scales of the back small, equal, rhomboidal, smooth; ventral shields 14-rowed; upper labial shields 6; the shield under the eyes elongated, rounded beneath; the front of the ear denticulated.

*a.* Adult, in spirits, not good state. N. Africa, Egypt. Presented by M. Lefebre.

†† *Dorsal scales equal, keeled.*

Savigny's Spined-foot. Acanthodactylus Savignii, *Dum. et Bib. E. G.* v. 274. Lacerta Dumerillii, *Edw. Ann. S. N.* xvi. 76, 85, *t.* 7, *f.* 9. *Gray, Ann. N. H.* i. 282. L. deserti, *Edw. Ann. S. N.* xvi. 79, 86. *t.* 6, *f.* 8. L. Savignii, *Audouin, Desc. Egypt.* i. 172. *Savig. Suppl. t.* 1, *f.* 8. *Edw. Ann. S. N.* xvi. 73, 85, *t.* 6, *f.* 4.—L. Olivier, *Audouin, Desc. Egypt.* i. 174. *Savig. Suppl. t.* 1, *f.* 11? L. grammica, *Ratke, Mem. Petersb.* iii. 303. Scrapteira maculata, *Gray, Ann. N. H.* i. 281.

Scales of the back equal, small, rhomboidal, rather swollen longitudinally; ventral shields 11 or 13-rowed; front of ear subdentate; collar arched, with 11 or 13 nearly equal scales, the middle united to the chest.

*a*, *b.* Adult and half-grown, in spirits. Scales keeled. Tripoly. Presented by J. Ritchie, Esq.

*a.* Adult, in spirits. Algiers.

The Spotted Spined-foot. Acanthodactylus lineato-maculatus, *Dum. et Bib. E. G.* v. 276. Lacerta cruenta, *Pallas, Voy. Rus.* i. 456? *Daud. Rept.* iv. 278? L. coccinea, *Merrem, Tent.* 69?

Scales of the back small, rhomboidal, imbricate, distinctly keeled; ventral shields 9-rowed; ear granular in front; collar transverse, slightly arched, of 9 well-developed scales, the middle largest

Inhab. Marocco. Mus. Paris.

†† *Dorsal scales larger in front.*

Bosk's Spined-foot. Acanthodactylus Boskianus, *Fitz. MS. Weigm. H. M.* 10. *Dum. et Bib. E. G.* v. 278. Lacerta Boskiana, *Daud. Rept.* iii. 188, *t.* 36, *f.* 1, young. *Licht. Doub.* 100. L. aspera, *Audouin, Rept. Egypt.* i. 174. *Savig. Supp. t.* 1, *f.* 10. L. carinata, *Schinz, Abbild.* 102, *t.* 39, *f.* 4. L. longicaudata, *Reuss, Mus. Senck.* i. 30. Scrapteira inequalis, *Gray, Ann. N. H.* i. 280.

Scales of the back rhomboidal, keeled, imbricate; of the hinder part of the neck the largest; ear toothed in front; ventral shields 10-rowed; collar angular, of 9 or 11 shields, the middle one largest, not fixed.

*a.* Adult, in spirits. N. Africa, Egypt. Presented by James Burton, Esq.

** *The 2 central series of ventral shields narrowed on each side behind.*

The Plain Spined-foot. Acanthodactylus inornatus. Scrapteira inornata, *Gray, Ann. N. H.* i. 281.

Greenish olive; tail with a dark streak on each side; beneath silvery white; scales of the back small, ovate, acutely keeled; of the base of the tail broad; preanal scales 10 or 12, subequal, placed in 4 transverse subalternate series, with small scales on the sides; ventral shields 12-rowed.

*a.* Adult, in spirits. Tripoli. Presented by J. Ritchie, Esq.
*b.* Adult, in spirits, not good state. Egypt. Presented by M. Lefebre.

10. Psammodromus, *Fitz., Weigm.* Notophilis and Aspistis, *Wagler, Weigm.*

Nostrils lateral, in the lower hinder angle of a flat scale above the first labial, with a single shield behind it. Eyelids distinct, scaly. Scales of the back rhombic, keeled, imbricate. Throat with a distinct fold, covered with small scales. Collar none, but a small arched fold before each shoulder. Ventral shields 4-sided, smooth. Toes 5-5, rather compressed, keeled beneath, not toothed on the side.

The Garriques. Psammodromus hispanicus, *Fitz. Rept.* 52. *Gray, Ann. N. H.* i. 283. Lacerta Edwardsiana, *Duyes, Ann. S. N.* xvi. 386, *t.* 14, *f.* 1—6. *Wagler, Syst.* 142. *Weigm. H. M.* 10. *Dum. et Bib. E. G.* v. 253. *Bonap. Ann. Sci. Nat. Zool.* xii. 62, *t.* 4 A. *f.* 2.

Olive, spotted with black, with 2 white streaks on each side; scales of the temple small, subequal, many-sided, not imbricate; of the back rhomboidal, imbricate, keeled; ventral shields 6-rowed.

Inhab. S. of France, Spain. Mus. Paris. Mus. Frank.

The GREY GARRIQUES. Psammodromus cinereus, *Bonap. Ann. Sci. Nat.* xiii. 62, *t.* 4 A. *f.* 1. *Weigm. Arch.* 1841, 118.

Ashy bronzed, uniform, beneath white; temple scaly; head large; tail elongate.

Inhab. South of France, Marseilles.

II. *Nostrils horizontal, in the ridge between* 3 *swollen shields,* 1 *between the nostril and the labial. Toes keeled beneath, or fringed on the sides.*

A. *Eyelids valvular.* Scrapteirina.

11. SCRAPTEIRA, *Fitz., Gray.*

Nostrils on the ridge between 3 swollen nasal plates, the lower and anterior moderate, the hinder upper small, triangular. Eyelids distinct. Collar transverse, free, with a few very small scales. Scales of the back circular, not imbricate. Ventral shields square. Preanal shields small, numerous, subequal. Toes 5-5, flattened, smooth beneath, toothed on the sides.

The SCRAPTEIRA. Scrapteira grammica, *Fitz. MSS. Weigm. H. M.* 9. *Dum. et Bib. E. G.* v. 283. Lacerta grammica, *Licht. Doubl.* 100.

Scales of the back small, equal, convex; ventral shields small, equal, in 18 or 20 oblique series of 18—22; collar of 5 or 6 scales; ear toothed in front.

Inhab. Nubia. Mus. Berlin, Leyden.

12. EREMIAS, *Fitzinger.* Podarcis, part, *Wagler.* Scrapteira, part, *Gray.* Aspidorhinus, *Eichw.* ?

Nostrils on the ridge in the centre between 3 swollen nasal plates, the lower and anterior upper moderate, the hinder upper small, triangular. Eyelids distinct, lower scaly, opaque, or with 2 or more transparent spots. Collar transverse, straight, free. The throat with a slight fold under the ears. Ventral shields square, smooth, Toes 5-5, rather compressed, keeled beneath, not toothed on the edge. Preanal shields numerous.

* *Ventral shields in* 16 *or* 18 *rather oblique series. Ear not toothed in front. Lower eyelid scaly, nearly opaque.*

The ARGUTA. Eremias arguta. Lacerta arguta, *Pallas, Voy. Rus.* iii. 470, viii. 87. L. variabilis, *Pallas, Zoogr.* iii. 31. *Licht. Doub.* 98. *Weigm. H. Mex.* 9. *Dum. et Bib. E. G.* v. 293. *Eversm. N. Mem. Mosq.* iii. 351, *t.* 29.

Back with black-edged white spots, or irregular black cross bands, sometimes spotted with white; tail short, swollen at the base; scales of the back ovate, rhomboidal, smooth, surrounded by granules, under the legs lozenge-shaped, preanal small, numerous, equal, middle one sometimes larger.

Inhab. Tartary.

Eversman's Arguta. Eremias velox. Lacerta velox, *Evers. N. Mem. Mosq.* iii. 353, *t.* 30, *f.* 3. Eremias cæruleo-ocellata, *Dum. et Bib. E. G.* v. 295. L. argutus, *Eichw. Z. S.* iii. 188?

Tail elongate, very slender; scales of the back ovate, rhomboidal, smooth, surrounded by granules, of the under side of the legs 6-sided, very large, preanal moderate, the central one largest; ventral shields nearly equal, square; hinder legs long.

Inhab. Crimea.

** *Ventral shields in 6 to 16 straight longitudinal series.* Meroles.

† *Lower eyelid opaque, subocular shield over the labials.*

Knox's Eremias Eremias Knoxii, *Gray, Ann. N. H.* i. 282. Lacerta Knoxii, *Edw. Ann. S. N.* xvi. 76, 85, *t.* 6, *f.* 6. *Dum. et Bib. E. G.* v. 299. *Smith, Illus. Z. S. Afr. t.* 43.

Ear toothed in front; lower eyelid covered with small, subequal, convex, 6-sided shields; scales of the back lozenge-shaped, slightly convex, as if keeled, subimbricate, of front of vent equal, with 1 or 2 larger medial ones; ventral shields subrhomboidal, in 16 series; subocular shields 2, over the fourth and fifth labial shields; femoral pores 16 or 20; collar of 11 or 13 scales.

*a.* Adult, in spirits. Throat black-dotted. S. Africa. Presented by the Earl of Derby.

*b—e.* Young and half-grown. Back with streaks of spots; legs with 3 rows of white spots. S. Africa.

†† *Lower eyelid scaly, with a pellucid central spot: subocular shield between the labial shields, forming part of the lip.*

The Cape Eremias. Eremias Capensis, *Dum. et Bib. E. G.* v. 302. *Smith, Illust. Zool. S. A. t.* Lacerta Capensis, *Smith, Mag. N. H.* ii. 93.

Ears granular in front; ventral shields in 14 series; scales of the back lozenge-shaped, flattened, slightly imbricate, of front of vent subequal; collar of 11 scales; subocular shield to the edge of the lip between the seventh and eighth labial plates.

*a.* In spirits. S. Africa. Presented by Dr. A. Smith.

Burchell's Eremias. Eremias Burchellii, *Dum. et Bib. E. G.* v. 303. *Smith, Ill. Zool. S. A. t.* Lacerta Burchellii, *A. Smith, Mus. Chatham.*

Ears granular in front; the under eyelid with a central cross series of 4 large 6-sided shields; ventral shields square, 14-rowed; scales of the back small, granular, suboval, convex, not imbricate, of the front of the vent small, equal; the subocular shield to the edge of the lip, between the fourth and fifth plates.

*a.* In spirits. Greyish brown, black-speckled, with a row of white specks on each side of the back, sides white-speckled, limbs with black-edged white spots. S. Africa. Presented by the Earl of Derby.

*b*. In spirits. Greyish brown, closely black-spotted, with 2 pale streaks converging along the middle of the back, the inner pair uniting and ending just behind the shoulders. S. Africa. Presented by the Earl of Derby.

The Streaked-back Eremias. Eremias dorsalis, *A. Smith, MS. Ill. Z. S. A. t.* *Dum. et Bib. E. G.* v. 305.

Ears granular in front; collar slightly arched, of 7 or 8 scales; ventral shields 8-rowed, rather transverse; scales of the back rhomboidal, slightly ridged, subimbricate, of the front of the vent small, numerous, equal; eyebrow-disk rounded in front, entirely surrounded with granules; subocular plate between the fifth and sixth labial shields.

Inhab. S. Africa. Mus. Dr. A. Smith.

The Namaqua Eremias. Eremias Namaquensis, *A. Smith, MSS. Ill. Z. S. Afr. t.* *Dum. et Bib. E. G.* v. 307.

Ears granular in front; collar straight, of 9 or 11 scales; ventral shields equal (keeled ?), 10 or 12; suborbital plate between the fifth and sixth labial shields; scales of the back rhomboidal, smooth, not imbricate, before the vent moderate, few, equal-sized.

*a*. In spirits. *b, c*. Dry. S. Africa. Presented by Dr. A. Smith.

The Dull Eremias. Eremias lugubris, *Dum. et Bib E. G.* v. 309. *Smith, Ill. Z. S. Afr. t.* Lacerta lugubris, *A. Smith, Mag. N. H.* ii. 93.

Ears granular in front, suborbital plate———? collar straight, slightly arched, free, of 9—11 scales; the ventral shields 6-rowed; scales of the back lozenge-shaped, smooth, not imbricate, of front of vent hexagonal, rhomboidal.

*a*. In spirits. S. Africa. Presented by Dr. A. Smith.

The Spotted Eremias. Eremias guttulata, *Dum. et Bib. E. G.* v. 310. Lacerta guttulata, *Licht. Doub.* 101. L. Olivieri, *Audouin, Rept. Egypt.* i. 175. *Savig. Supp. t.* 2, *f.* 1. *t.* 2, 2.—*Edw. Ann. S. Nat.* xvi. 94, *t.* 6, *f.* 5.

Collar curved, free, of 9 or 11 scales; ear granular in front; subocular plate between the third and fourth or fifth and sixth labial shields; scales of the back lozenge-shaped, slightly convex, smooth, not imbricate; eyebrow disk angular, outer side edged with granules; ventral shields subrhombic, equal, in 10 rows; outer smaller; preanal plate large, edged with 2 series of small scales.

Inhab. N. Africa, Egypt, Algiers. Mus. Paris.

††† *Lower eyelid with* 2 *transparent plates.*

The Eyed Eremias. Eremias lineo-ocellata, *A. Smith, MSS. Ill. Z. S. Afr. t.* — *Dum. et Bib. E. G.* v. 314.

Lower eyelid with 2 large transparent plates in the middle forming a longitudinal spot; collar of 11 or 12 scales; scales of back

thin, rhomboidal, keeled, imbricate; palate toothed; ear slightly toothed in front; ventral shields lozenge-shaped, in 14 series; preanal scales small, numerous, subequal.

*a.* In spirits. S. Africa. Presented by the Earl of Derby.
*b.* In spirits. S. Africa. Presented by Dr. A. Smith.

The WAVED EREMIAS. Eremias undata, *Dum. et Bib. E. G.* v. 316. *Smith, Ill. Z. S. Afr. t.* Lacerta undata, *A. Smith, Mag. N. H.* ii. 93.

Lower eyelid with 2 central transparent plates; ears with a few prominent granules in front; subocular plate between the fifth and sixth labial shields; scales of the back subrhomboidal, smooth, not imbricate; ventral shields in 13 series, subrhomboidal, the central series narrower on each side behind; preanal scales subequal, moderate-sized.

*a.* In spirits. Back dark blackish, 2 pale streaks on each side. S. Africa. Presented by the Earl of Derby.

The BEAUTIFUL EREMIAS. Eremias pulchella.

Reddish olive, black varied, with 2 rows of black rings on each side; lower eyelid with 2 transparent plates, forming an oblong, transverse spot; collar of 11 or 13 scales; scales of the back small, granular, rhombic, thick, convex, obscurely keeled, of the hinder part of the back rather larger and not imbricate; edge of the ear slightly toothed; ventral shields rather rhombic, in 14 series; preanal scales 5 or 6, moderate, surrounded by smaller ones.

*a.* In spirits. S. Africa. Presented by the Earl of Derby.
*b.* Half-grown. In spirits. Presented by the Saffron Walden N. Hist. Society.

†††† ——— ?

Aspidorhinus gracilis, *Eichw. Fauna Casp. Cauc.* 74, *t.* 11, *f.* 4—6. Lacerta g. *Eichw. J. S.* iii. L. vittata, *Eversm. not Gmel.*

Scales of the temple very small, with 1 superior and 2 inferior larger plates, of the back very minute, granular; "preanal shield variable, single, large, or numerous and small;" black, with narrow white streaks; hind legs white-spotted, beneath white.

Inhab. Shore of the Caspian Sea.

13. MESALINA, *Gray.* Scrapteira, part, *Gray.* Eremias, Sect. *Dum. et Bib.*

Head rather depressed. Nostrils on the ridge between 3 swollen scales, the lower and anterior moderate, hinder upper small, triangular. Eyelids distinct. Collar indistinct, subangular, attached in the middle, free on the sides. Throat without any fold under the ears. Ventral shields smooth, central, contracted behind. Scales of the back rhombic or circular, not imbricate. Toes 5-5, rather compressed, keeled beneath, not toothed on the

edge. Preanal shield single, posterior, large, with 1 or 2 series of smaller ones round it.

* *Lower eyelid with 2 transparent plates.*

The Dotted Mesalina. Mesalina Pardalis. Lacerta pardalis, *Licht. Doub.* 99. *Dum. et Bib. E. G.* v. 312. Scrapteira punctulata, *Gray*, *Ann. N. H.* i. 281.

The collar subcrenated, subangular, fixed in the middle to the chest, free on the sides; ear not toothed in front; lower eyelid with 2 transparent plates, forming an elongated spot; scales of the back rhombic, conic, not imbricate; ventral shields 10-rowed; preanal plate large, edged with 2 rows of scales, the outer largest.

*a*, *b*. In spirits. N. Africa. From the Berlin Museum.

** *Lower eyelid pellucid, scaly.*

The Red-spotted Mesalina. Mesalina rubropunctata. Lacerta rubropunctata, *Licht. Doub.* 100. *Dum. et Bib. E. G.* v. 297. Scrapteira sabulosa (nebulosa), *Gray*, *Ann. N. H.* i. 281.

Greyish green, with 3 rows of black spots; tail with a row of black spots on each side; ear not toothed in front; collar even, of 9 or 11 small scales; lower eyelid with a central larger and 2 or 3 smaller half-transparent plates; scales of the back minute, smooth, convex, with intervening granules; ventral shields square, subequal, in 12 straight series; preanal plate central, with 2 series of smaller scales.

*a*—*d*. In spirits. Egypt. Presented by Sir. J. G. Wilkinson.
*e*. Young, in spirits. N. Africa. From the Berlin Museum.
Mesalina Lichtensteinii, *Gray*, *Ann. N. H.* i. 282.

14. Cabrita, *Gray*. Callosaura, *Dum. et Bib.*

Nostrils on the muzzle-ridge, between a superior and inferior rather swollen nasal plates, with a small hinder nasal. Upper eyelid short, lower large, with a transparent disk. Collar none, with a small fold in front of each shoulder. Throat-fold indistinct. Scales of the back rhomboidal, keeled, imbricate. Ventral shields 4-sided, smooth. Preanal shield single, surrounded by smaller ones. Femoral pores distinct. Toes 5-5, slightly compressed, keeled beneath, not toothed on the sides.

The Cabrite. Cabrita Leschenaultii. Lacerta Leschenaultii, *Edw. Ann. S. N.* xvi. 80. 86, *t.* 6, *f.* 9. *Dum. et Bib. E. G.* v. 284. Cabrita brunnea, *Gray*, *Ann. N. H.* i. 282.

Brown, with 2 white streaks on each side; temple covered with small, equal, hexagonal, keeled, subimbricate scales; ventral shields 6-rowed, the middle row on each side largest; femoral pores 15-16.

Inhab. India. Mus. Bell. Coromandel. Mus. Paris.

B. *The Eyelid rudimentary, circular. Eye exposed.* Ophiopina.

15. Ophiops, *Menestries.* Amystes, *Weigm.*

Nostrils longitudinal, in the muzzle-ridge, between a superior and inferior rather swollen nasal shields, with 3 small shields behind them. Eyelids none. Tongue elongate. Cheek-teeth tricuspid. Palate toothless. Collar none, a small fold before each shoulder. Scales of the back rhombic, keeled, imbricate. Ventral shields 4-sided, rhombic, smooth, 2 middle series narrowed on each side behind. Femoral pores distinct. Toes 5-5, rather compressed, keeled beneath, not toothed on the sides.

The Elegant Ophiops. Ophiops elegans, *Menetr. Cat.* 60. *Eichw. Fauna Casp. Caus.* 78, *t.* 12, *f.* 1—5. *Dum. et Bib. E. G.* v. 259. Amystes Ehrenbergii, *Weigm. Berl. Mag.* 1835. Lacerta nudipes, *Hemp. et Ehrenb.* Algira punctata, *Gray, Ann. N. H.* i. 283.

Olive or bronzed, black-spotted, with 2 whitish streaks on each side of the back; temples covered with small many-sided shields; ventral shields 8-rowed; femoral pores 9—12.

*a*, *b*. Adult and young, in spirits. Shores of the Mediterranean. Smyrna? Presented by J. Miller, Esq. R.N.

The Long-toed Ophiops. Ophiops macrodactylus, *Berthold. Weigm. Arch.* 1841, 118.

Olive-green, black-spotted, without any dorsal streaks or eyed spots on the thighs; toes very long; tail twice as long as the body.

Inhab. Asia Minor.

** *Sides with a distinct longitudinal fold, covered with small granular scales. Back with large squarish shields.*

Fam. V. CORDYLES, (ZONURIDÆ).

Head pyramidal or depressed, covered with regular many-sided shields. Tongue flat, nicked at the tip. Scales of the back and tail large, rhombic. Sides with a distinct longitudinal fold, covered with small granular scales. Ears distinct. Eyes with 2 valvular lids. Limbs 4, strong, or rarely entirely wanting or hid under the skin.

A. *Femoral pores distinct. Nasal shield without any or only one pair of supra nasals. Legs* 4. *Occipital shields few.* Old World.

a. *Tail spinose. Head depressed. Fronto-parietal and parietal plates forming a large square. Tongue velvet-like. Collar none, with a slight cross fold on the side of the neck. Femoral pores numerous.*

1. CORDYLUS. Scales of back and sides square, in close cross series. Lower eyelid transparent. Nasal small: supra-nasals square, contiguous.

2. ZONURUS. Scales of back and sides square, keeled, in close cross series. Lower eyelid opaque. Nasal triangular: supra-nasal none.

3. HEMICORDYLUS. Scales of back small, square, in cross rows; of the sides granular. Nasal triangular: supranasal none.

4. PSEUDOCORDYLUS. Scales of the back suboval, in cross rows, surrounded with granules, with a fold on each side of the neck. Nasal triangular: supranasal none.

b. *Tail unarmed. Head pyramidical. Tongue scaly. Supra-nasal none.*

5. PLATYSAURUS. Toes 5-5. Head depressed. Fronto-nasals 2, fronto-parietals and parietals distinct, equal. Body fusiform.

6. CICIGNA. Toes 5-5. Head square. Fronto-nasals 2, fronto-parietal and parietal united on each side. Body fusiform.

7. GERRHOSAURUS. Toes 5-5. Head square. Fronto-nasals 2, fronto-parietals and parietals distinct, equal. Body fusiform.

8. PLEUROSTRICHUS. Toes 5-5. Head square. Fronto-nasals none, fronto-parietal and parietals equal. Body and tail elongate.

9. SAUROPHIS. Toes 4-4, very short. Body and tail elongate.

10. Caitia. Feet undivided, front very slender, elongated, hinder compressed, thick. Body and tail elongate. Femoral pores 2-2.

c. *Tail unarmed. Head pyramidical, elongate. Collar distinct, of keeled scales. Inguinal pores* 2-2.

11. Tachydromus. Ventral shields keeled. Throat with keeled scales.

12. Tachysaurus. Ventral shields smooth. Throat granular in front.

B. *Femoral pores none. Nasal plates with* 2 *or more pairs of supranasal shields above. Occipital plates numerous. Collar none. Throat shielded.*

a. *Limbs* 4. *Body fusiform. Tongue velvety.* Western hemisphere.

13. Abronia. Head depressed. Inter-nasals small, distinct. Scales of back smooth.

14. Gerrhonotus. Head pyramidical. Internasal small, supranasal large. Scales of the back keeled.

15. Elgaria. Head pyramidical. Internasal large, supernasal very narrow. Scales of the back keeled, of sides smooth. Tail elongate, slender.

16. Barissia. Head pyramidical. Internasal plates none. Scales of back keeled.

b. *Legs* 2 *or none. Body snake-like.*

17. Pseudopus. Limbs 2, posterior, undivided.

18. Ophisaurus. Limbs none.

A. *Femoral pores distinct. Supranasal shields none or only* 1 *pair. Occipital shields few. Legs* 4. Eastern World.

a. *Tail spinose. Head depressed, broad. Fronto-parietal and parietal plates large. Tongue velvet-like. Collar none, or only a slight fold on each side of throat. Nostrils in a single plate. Femoral pores numerous.* Zonurina.

1. Cordylus. Zonurus, § a. *Gray. Dum. et Bib.*

Head depressed, fronto-parietal and parietal plates forming a square. Temple-shield keeled; nasal small, oblong; supranasal large, square, contiguous. Eyelids distinct, lower with a central transparent smooth spot. Scales of the back moderate, rhombic, keeled, striated and pierced with a pore, in close cross rows; of the back unarmed. Toes 5-5, compressed, keeled beneath. Tail spinose, squarish.

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The CORDYLE. Cordylus polyzonus, *A. Smith, Mag. N. H.* ii. 34. *Illust. Zool. S. Africa, Rept. t.* 28, *f.* 1, *t.* 30, *f.* 7. *Dum. et Bib. E. G.* v. 357.

Grey, black-varied, with a black streak behind the ears; scales of the back ovate, rhombic, slightly keeled, in 40 cross rows; of the sides rather more keeled; tail and sides of the neck rather spinose; ventral shields 18-rowed.

*a.* Young, in spirits. Olive, black-spotted; tail with alternate pale rings. S. Africa. Presented by the Earl of Derby.

## 2. ZONURUS.

Head depressed, fronto-parietal and parietal plates large, forming a square; interparietal square. Neck spinose. Temple-shields keeled. Nasal triangular, contiguous, supranasal none. Eyelids distinct, lower opaque, scaly, with a central longitudinal series of larger 6-sided scales. Scales of the back and sides square, keeled, in close cross series. Toes 5-5, compressed, keeled beneath. Tail round, spinose.

* *Ventral shields square, truncated behind.*

The ROUGH-SCALED CORDYLE. Zonurus Cordylus, *Merrem, Tent.* 57. *Gray, Ann. N. H.* i. 388. Lacerta Cordylus, *Linn. S. N.* 361. *Daud. Rept.* iii. 8. Cordylus verus, *Laur. Syn.* 52. C. griseus, *Cuv. R. A.* ii. 33. *Seba*, ii. *t.* 62, *f.* 5. *Dum. et Bib. E. G.* v. 350. *A. Smith, Ill. Zool. S. Afr. t.* 28, *f.* 2, 3. *t.* 30, *f.* 8. Stellio niger, *Daud. Rept.* iii. 48. *Cuv. R. A.* 33. C. dorsalis, *Cuv. R. A.* ii. 33. *Seba, t.* 109, *f.* 5. Le Cordyle, *Lacep. Q. O.* i. 324. *Pet. Gaz. t.* 58, *f.* 12.

Head-shields smooth. Scales of the back large, rhomboidal, keeled, in 19 cross rows, central series broadest, the rest keeled; of the sides with the keels prolonged into spines; of the tail sharply keeled the whole length; nasal plate not swollen; side of the neck spinose; ventral shields 10 or 12-rowed; lateral series very narrow; tail slender, angular.

*a.* Adult, in spirits. S. Africa. From the Leyden Museum.
*b.* Adult, in spirits. Larger. S. Africa.

The SHIELDED ZONURUS. Zonurus cataphractus, *Gray, Griffith, A. K.* ix. 63. *Ann. N. H.* i. 388. *Dum. et Bib. E. G.* v. 355. Cordylus cataphractus, *Boie, N. Act. N. Cur.* xiv. 139. Z. Cordylus, *Schlegel, Zon. t.* 7, *f.* 2. C. maculosus, *A. Smith, Mag. N. H.* ii. 31.

Head-shields rugose; scales of the back 4-sided, oblong, keeled, in 16 cross rows, of the sides equally large and spinose; of the tail broad, thick, keeled, rugose, and ending in a conical point; nasal plate swollen; tail and sides of neck strongly spinose; ventral shields 12 or 14-rowed, lateral series moderate; tail thick, roundish.

*a*, *b*. Adult, stuffed. Central dorsal series of scales smooth. S. Africa. From the S. African Museum.
Z. vertebralis, *Gray*, *Ann. N. H.* i. 388.
*c*. Adult, stuffed. S. Africa.
*d*. Adult, in spirits. Reddish. S. Africa. Presented by the Earl of Derby.
*e*. Adult, in spirits. Olive, black-spotted. S. Africa. Presented by John Lee, LL.D.
*f*—*h*. In spirits, partly bleached. S. Africa.

** *Ventral shields oblong, central rounder, the lateral ones slightly keeled and angular behind.*

Lord Derby's Zonurus. Zonurus Derbianus.
Head-shields very rough, back of head with a ridge of conical spines; scales of the nape, sides and tail ending in broad conical spines; tail conical, very spinose; ventral shields rounded, lateral ones angular.

*a*. Adult, in spirits. Brown, head black. S. Africa. Presented by the Earl of Derby.
*b*. Young, in spirits. Black and white banded, tail black-ringed, end red. S. Africa. Presented by the Earl of Derby.

3. Hemicordylus, *A. Smith*. Zonurus, Sect. 2. *Dum. et Bib.*

Head depressed. Fronto-parietal and parietal plates large. Temple-scales smooth. Neck granular. Palate not toothed. Nasal triangular, contiguous; supranasal none. Throat with a fold on each side. Scales of the back small, quadrangular, keeled, subimbricate, in close cross rows; of the sides granular, with a series of larger scales. Toes 5-5, compressed, keeled beneath. Tail spinose; lower eyelid scaly.

The Bastard Cordyle. Hemicordylus capensis, *A. Smith*, *Mag. N. H.* ii. 32. *Illustr. Zool. S. Afr. t.* 27, *f.* 2. *t.* 30, *f.* 6. *Dum. et Bib. E. G.* v. 360.
Ventral shields 8-rowed; tail subspinose.
Inhab. S. Africa. Mus. Chatham, 1 specimen.

4. Pseudocordylus, *A. Smith*.

Head depressed. Fronto-parietal and parietal plates large; temple-scales smooth. Neck granular, with a strong plait on each side. Throat with an indistinct collar attached in the middle, and with a distinct fold on each side. Palate not toothed. Nasal triangular, contiguous; supra-nasal none. Eyelids distinct, lower opaque. Scales of the back and sides granular, with transverse series of ovate, trigonal, convex, slightly keeled larger scales, largest on the sides of the back. Toes 5-5, compressed, keeled beneath. Tail compressed, spinose

The False Cordyle. Pseudocordylus microlepidotus. Zonurus Wittii, *Schlegel, Zon. t.* 7, *f* 1. Cordylus microlepidotus, *Cuv. R. A.* ii. 33. *Guerin, Icon. t.* 6, *f.* 1. *Illust. S. Afric. Zool. t.* 24—27, *f.* 1 ; *t.* 30, *f.* 1—5. C. montanus, C. fasciatus, C. melanotus, C. algoensis, C. subviridis, *A. Smith, Mag. N. H.* ii. 22. Z. Davyi, *Gray, Ann. N. H.* i. 388 ?

Ventral shields 12 or 14-rowed ; femoral pores in 3 rows.,

*a.* Adult, in spirits. S. Africa. Presented by the Earl of Derby. C. fasciatus, *A. Smith, Ill. Zool. S. Afr. t.* 27, *f.* 1, *t.* 30, *f.* 5.

*b, c.* Adult, stuffed. S. Africa. From the S. African Museum.

b. *Tail unarmed. Head pyramidical. Tongue imbricately scaly. Supranasal none ; nasals small, contiguous. Ear with a plate in front.* Cicignina.

* *Toes* 5-5 *or* 4-4. *Femoral pores numerous.*

5. Platysaurus, *A. Smith.*

Head depressed. Frontonasals contiguous; parietal plates distinct, equal, forming a square shield; fronto-parietal and palpebral plates edged with rows of narrow plates. Teeth short, numerous. Nostrils lateral. Ears open, oblong. Gular collar rudimentary. Body depressed. Scales of back very small. Abdominal shields quadrangular. Femoral pores small. Limbs 4. Toes 5-5, unequal. Tail round, tapering, unarmed.

The Cape Platysaure. Platysaurus capensis, *A. Smith, Ill. Zool. S. Africa, Rept. t.* 40.

Grey brown, with 3 white streaks, beneath greenish yellow.

Inhab. S. Africa. Great Namaqua Land. Mus. Dr. A. Smith.

6. Cicigna, *Gray.* Gerrhosaurus, *Weigmann.*

Head 4-sided; fronto-nasal distinct ; fronto-parietal and parietals united on each side; interparietal small, central, or wanting; temple shielded. Palate not toothed. Nostrils lateral, between the upper labial and an anterior and posterior shield. Eyelids distinct. Ears with a plate in front. Scales of the back square, in cross series. Body fusiform. Toes 5-5, unequal, compressed, smooth beneath. Femoral pores distinct. Tail rather compressed, unarmed.

* *Interparietal none.*

The Two-streaked Cicigna. Cicigna Madagascarensis, *Gray, Griffith, A. K.* ix. 64. Gerrhosaurus bifasciatus, *Dum. et Bib. E. G.* v. 375, *t.* 47. *A. Smith, Ill. Zool. S. Afr. t.* 42, *f.* 25—27.

Olive, with a black-edged white streak ; scales of the back in 24 cross rows, finely striated, with a very small central keel; 2 small shields between the second pair of submaxillary.

*a*, *b*. Adult and young, in spirits. Madagascar. Presented by J. E. Gray, Esq.

** *Interparietal very small, central.*

The Beautiful Cicigna. Cicigna ornata. C. Madagascarensis, var. ornata, *Gray*, *Griffith*, *A. K.* ix. 64. Gerrhosaurus lineatus, *Cocteau*, *Mag. Zool. t.* 5, 6, *f.* 2. *Dum. et Bib. E. G.* v. 378 *A. Smith*, *Ill. Zool. S. Afr. t.* 42, *f.* 21, 24?

Back with 5 alternate black and yellow streaks; scales of the back in 24 cross rows, strongly striated and keeled; a small shield between the second pair of submaxillaries.

*a*. Adult, in spirits. Madagascar. Presented by J. E. Gray, Esq.

7. Gerrhosaurus, *Weigmann*. Pleurostrichus, *A. Smith*.

Head pyramidical; frontoparietals 2; frontonasals and parietal plates separate, equal; interparietal small. Temple shielded. Palate toothless. Nostrils lateral, between the upper labial and an anterior and posterior nasal shields. Eyelids distinct. Ear with a long scale in front. Scales of the back square, in cross series. Body fusiform. Toes 5-5, unequal, compressed, smooth beneath. Femoral pores distinct. Tail rather compressed, unarmed.

The Yellow-throated Gerrhosaurus. Gerrhosaurus flavigularis, *Weigm. Isis*, 1828, 379. *Dum. et Bib. E. G.* v. 379. *Wagler*, *Icon. t.* 34, *f.* 1. G. ocellatus, *Cocteau*, *Mag. Zool.* iv. *t.* 5, 6, *f.* 1. Cicigna sepiformis, *Gray*, *Griffith*, *A. K.* ix. 63. *Ann. N. H.* i. 389. Pleurostrichus chrysobranchus, and P. Dujardinii, *A. Smith*, *Mag. Zool. & Bot.* i. 144, 143. *Ill. Zool. S. Afr. Rept. t.* 42, *f.* 1—4.

Back brown, with black-edged white spots, a black-edged pale streak on each side; scales of the back striated and keeled, of the sides smooth, in 23 series; ventral shields 8-rowed.

*a*. Adult, stuffed. Tail wanting. S. Africa. From the S. African Museum.

The Gerrhosaurus. Gerrhosaurus typicus, *Dum. et Bib. E. G.* v. 383. Pleurostrichus typicus, *A. Smith*, *Mag. Zool.* ii. 143. *Ill. Zool. S. Afr. Rept. t.* 42, *f.* 58.

Back brown, with a black and white streak on each side; scales of the back striated, slightly keeled, of the sides smooth, in 23 series; ventral shields 16-rowed.

*a*. Adult, stuffed. S. Africa. Presented by Dr. A. Smith.

Bibron's Gerrhosaurus. Gerrhosaurus Bibronii, *A. Smith*, *Zool. S. Afr. Rept. t.* 49, *f.* 9—12, not described.

Inhab. S. Africa. Mus. Dr. A. Smith.

### 8. Pleurostrichus.

Head pyramidical; internasal large; frontonasal none (or united to the former); frontoparietal and parietal separate (or united?) Nostrils lateral. Eyelids distinct. Ear with a long narrow scale in front. Body elongate, subcylindrial. Toes 5-5, unequal. Tail elongate.

The Pleurostrichus. Pleurostrichus sepiformis. Scincus sepiformis, *Schn. Amph.* 291. *Merrem, Tent.* 70. *Dum. et Bib. E. G.* v. 385. *Bell. Zool. Voy. Beagle*, 29, *t.* 15, *f.* 2. *A. Smith, Ill. Zool. S. Afr. t.* 42, *f.* 13—16.

Yellowish brown, with 12 brown streaks; scales of the back and sides large, equal, strongly striated, in 13 series; of the tail slightly keeled; ventral shields 8-rowed.

*a*. Half-grown, in spirits. S. Africa.
*b*. Half-grown, in spirits. S. Africa. Presented by Charles Darwin, Esq.

The Smooth-tailed Pleurostrichus. Pleurostrichus subtessellatus. Gerrhosaurus subtessellatus, *A. Smith, Illust. Zool. S. Afr. Rept. t.* 41, *f.* 1. G. tessellatus, *A. Smith, l. c. t.* 42, *f.* 17, 20.

Back yellow brown, edged on each side with a brown and white tessellated streak, beneath greenish; body elongate, depressed; scales of body and tail smooth, not keeled; "fronto-parietal and parietal united on each side."

Inhab. S. Africa. Great Namaqua Land. Mus. Dr. A. Smith.

### 9. Saurophis, *Fitzinger*, *Weigm.* Tetradactylus, *Merrem*, *(not Peron)*. Chalcides, *Daud.*

Head pyramidical, shielded. Temple shielded. Palate toothless. Nostrils lateral, in the upper labial, an anterior and a posterior nasal plate. Eyelids distinct. Ear with a lobe in front. Body very long, narrow. Sides with a groove. Scales of back rhombic, smooth. Legs very short. Toes 4-4, short, compressed, smooth below; claws elongate. Femoral pores distinct.

The Saurophis. Saurophis tetradactylus. Tetradactylus Chalcididus, *Merr. Tent.* 75. Lacerta tetradactyla, *Lacep. Ann. Mus.* ii. 351, *t.* 59, *f.* 1. *Schinz, Rept. t.* 42, *f.* 1. *Daud. Rept.* iv. 362. *Guerin, Icon, t.* 16, *f.* 2. Saurophis Seps, *Fitz. Rept.* 50. S. Lacepedii, *Dum. et Bib. E. G.* v. 389.

Fulvous, scales brown-edged; lips and lower edge of the temple white, black-spotted; scales of the back striated, with a small central keel, in 14 series; ventral shields 6-rowed; femoral pores 5 or 6.

Inhab. S. Africa? Australia??? Mus. Paris.

** *Feet undivided. Femoral pores* 2-2.

10. CAITIA, *Gray.*

Head pyramidical. Body very long, subcylindrical. Legs undivided, rudimentary, front legs very slender, elongate. Hind feet short, compressed, thick, undivided. Femoral pores 2, large, on each thigh. Tail very long, tapering, slender.

The CAITIA. Caitia Africana, *Gray, Ann. N. H.* i. 389.
Olive brown, rather paler on the sides.
Inhab. Cape of Good Hope. Mus. Chatham.

c. *Tail elongate, unarmed. The head pyramidical, elongate. Collar distinct, formed of keeled scales. Nasal lateral, supra-nasal none. Inguinal pores* 2-2. Tachydromina.

11. TACHYDROMUS, *Daud.*

Nostrils in the muzzle-ridge, in a single plate. Eyelids distinct. Collar scaly, toothed, slightly marked. Scales of the back angular, keeled, in cross bands; of the sides granular; of the belly and throat imbricate, keeled. Inguinal pores 2-2, distinct. Toes 5-5, slightly compressed, (not keeled beneath). Tail very long, with rhombic scales.

The TACHYDROME. Tachydromus sexlineatus, *Daud. Rept.* iii. 256, *t.* 39. *Brong. Class.* 43, *t.* 2, *f.* 8. *Dum. et Bib. E. G.* v. 158. T. 4-lineatus, *Daud. Rept.* iii. 252. T. ocellatus, *Guerin, Icon. R. A. t.* 5. T. typicus, *Gray, Ann. N. H.* i. 389.
Olive, with a black-edged white streak, sides with black-edged white spots; dorsal scales in 4 longitudinal series, nearly square, slightly imbricate, strongly keeled; ventral shields strongly keeled; parietal plates oblong.

*a—d.* Adult, in spirits. China. Presented by J. Reeves, Esq.
*e.* Adult, in spirits. Borneo. From the Leyden Museum.
*f. g.* Adult, in spirits. Borneo. Presented by Capt. Sir E. Belcher, C.B., R.N.

12. TACHYSAURUS.

Throat granular, with keeled scales on the middle behind. Collar toothed, of keeled rhombic scales. Ventral shields elongate, narrowed on each side, the lateral ones keeled.

The SIZE MUSI. Tachysaurus Japonicus. Tachydromus Japonicus, *Dum. et Bib. E. G.* v. 161. Lacerta Tachydromoides, *Schlegel, Fauna Jap.* 101, *t.* 1, *f.* 5—7.
Olive-green, with a yellow streak on each side; scales of the back rhomboidal, keeled, imbricate, in 6 longitudinal series; shields of the belly slightly keeled; head short; parietal plates nearly as broad as long.

*a.* In spirits. Japan. From the Leyden Museum.

II. *Femoral pores none. Nasal with 2 or more pairs of supranasals above. Occipital plates numerous. Collar none. Throat shielded.*

a. *Limbs 4. Head pyramidical. Tongue velvet-like. Nostrils in a nasal plate. Body fusiform.* Western Hemisphere. Gerrhonotina.

13. ABRONIA, *Gray*. Gerrhonotus, *Weigm.*

Head depressed; internasal small; supernasals 2, moderate, contiguous; frontonasal, frontoparietal and interparietal distinct, subequal; parietal rather larger; occipital shields numerous. Eyelids distinct. Scales of the back and tail smooth, or obscurely keeled. Body fusiform, with a groove on each side. Toes 5-5, smooth beneath. Femoral pores none. Tail round, tapering, as long as the body.

The CUTEZPALIA. Abronia Deppii, *Gray, Ann. N. H.* i. 389. Gerrhonotus Deppii, *Weigm. Herp. Mex. t.* 9, *f.* 3. *Dum. et Bib. E. G.* v. 398.

Black, with cross bands of white spots; tail with 14 or 15 brown half-rings; scales of the back and sides very large, flat, smooth, in 16 or 17 series, in 30 cross bands; ventral shields 14-rowed.

Inhab. Mexico, (Mus. Berlin).

The STREAKED CUTEZPALIA. Abronia tæniata, *Gray, Ann. N. H.* i. 390. Gerrhonotus tæniatus, *Weigm. H. M.* 32, *t.* 9, *f.* 1, 2.—*Dum. et Bib. E. G.* v. 399.

Whitish, with 8 black cross bands; a black streak on the temple, and 15 black half-rings; scales of the back slightly swollen on the tail; the central line of the sides smooth; ventral shields 12-rowed.

Inhab. Mexico. Mus. Berlin.

14. GERRHONOTUS, *Weigm.* Pterogasterus, *Peale et Green.* Cordylus, *Blainv.*

Head pyramidical; internasal, supernasal, and the rest of the shields small; occipital numerous, small. Eyelids distinct. Scales of the back and tail unarmed, keels forming continued ridges. Body fusiform, with a groove on each side. Toes 5-5, smooth beneath. Femoral pores none. Tail round, tapering, as long as the body.

The CHECQUERED GERRHONOTE. Gerrhonotus tessellatus, *Weigm. H. M.* 31, *t.* 10, *f.* 3. head. *Gray, Ann. N. H.* i. 390. *Dum. et Bib. E. G.* v. 405. G. liocephalus, *Weigm. Iris*, 1828, 379, young. Scincus (Pterogasterus) ventralis, *Peale and Green, Journ. Acad. N. S. Phil.* vi. 233.

Olive, with a range of black dots and square black spots on the side plait; scales of the back keeled, of the sides smooth, in 53 cross series; ventral shields 12-rowed; supranasal small, rhombic, internasal rhombic; frontonasal and interparietal subequal small.

Inhab. Mexico.

The Bluish Gerrhonote. Gerrhonotus cæruleus, *Weigm. Herp. Mex.* 31.

Scales of the back and sides equally keeled; dusky blue, black-spotted; head, throat and belly blackish; sides black and white varied.

Inhab. Brazils. Mus. Berlin.

Burnett's Gerrhonote. Gerrhonotus Burnettii, *Gray, Beechey's Voy. Rept.* 96, *t.* 31, *f.* 1. *Ann. N. H.* i. 390.

Pale brown, sides with 10 or 11 oblique brown cross bands, with white tips to the scales; scales of the back and sides equally keeled, forming regular ridges; supranasals 2 pair, equal, rather transverse; internasal, frontonasal and frontoparietal moderate, equal; ventral shields 12-rowed; tail elongate, compressed at the base, brown-varied.

*a.* Adult, in spirits. Tail reproduced. S. America. Presented by Sir William Burnett, R.N.

Weigmann's Gerrhonote. Gerrhonotus Weigmannii.

Pale brown, sides with oblique brown cross bands, with white tips to the ends of the scales; scales of the back and sides equally keeled, forming regular ridges; head broad behind, supranasals 2 pair, front small, upper larger, transverse; internasal broad 6-sided; frontonasal and frontoparietal moderate, subequal; ventral shields 12-rowed; tail elongate, brown-varied, compressed at the base, angular at the end.

*a.* Adult, in spirits. Mexico?

15. Elgaria, *Gray.*

Head pyramidical, shielded; internasal large, rhombic; supranasals 2 pair, very narrow, band-like; fronto-nasal and frontoparietal 6-sided, equal; the occipital plates scale-like. Scales of the back and tail slightly keeled, armless. Limbs weak. Toes 5-5. Tail slender, tapering, much longer than the body.

The Elgaria. Elgaria Kingii, *Gray, Ann. N. H.* i. 390. Gerrhonotus Kingii, *Bell, MSS.* G. multifasciatus, *Dum. et Bib. E. G.* v. 401.

Brown, with 15 white-spotted brown bands, and numerous half-rings on the tail; scales of the back obscurely keeled, of the sides smaller; ventral shields 12-rowed.

*a.* Adult, in spirits. Mexico. Presented by Thomas Bell, Esq.

16. Barissia, *Gray.* Gerrhonotus, part, *Weigm.*

Head pyramidical; shields convex; supranasals 2 or 3 pair, square, contiguous; internasal none; frontonasal and fronto-parietal square; occipital shields keeled. Scales of the back round, keeled and unarmed. Toes 5-5. Tail round, as large as the body.

The BARISSIA. Barissia imbricata, *Gray, Ann. N. H.* i. 390. *Zool. Beechey's Voy. Rept.* 99, *t.* 31, *f.* 1. Gerrhonotus imbricatus, *Weigm. H. M.* 34, *t.* 10, *f.* 2, 5. *Dum. et Bib. E. G.* v. 407.

Greenish grey, varied with olive; scales of the back keeled, ending in a point, of the lower part of the sides smooth, in 37 cross bands; ventral shields 12-rowed.

*a.* Adult, in spirits. Wants end of tail. Mexico. Presented by J. E. Gray, Esq.

The ROUGH-NECKED BARISSIA. Barissia rudicollis, *Gray, Ann. N. H.* i. 390. Gerrhonotus rudicollis, *Weigm. H. M. t.* 10, *f.* 1, 4. *Dum. et Bib. E. G.* v. 410.

Greenish grey, varied with olive and dotted with black; sides blackish banded; scales of the back and sides large, keeled, pointed behind, in 28 cross rows; ventral shields 14-rowed.

Inhab. Mexico. Mus. Berlin.

The SPECKLED BARISSIA. Barissia lichenigerus, *Gray, Ann. N. H.* i. 390. Gerrhonotus lichenigerus, *Wagler, Icon. t.* 34, *f.* 2. *Weigm. H. M.* 35. *Dum. et Bib. E. G.* v. 408. G. adspersus, *Weigm. H. M. t.* 10, *f.* 6.

Olive, whitish spotted, and with a whitish streak on each side; scales of the back keeled, not pointed, of the sides smooth, in 39 cross series; ventral shields 10-rowed.

Inhab. Mexico. Mus. Berlin.

b. *Snake-like. Legs* 2, *rudimentary or none. Ears small. Eyelids distinct. Nostrils in a shield. Supranasal shields band-like, many pairs, with a central suprarostral. Tongue granular in front, villose behind.* Pseudopina.

17. PSEUDOPUS, *Merrem.* Bipes, *Oppel, Wagler.* Proctopus, *Fischer.* Histeropus, *Bory.* Chamæsaura, part, *Schneid.* Seps, part, *Daud.* Ophisaurus, part, *Eichwald.*

Head pyramidical, 4-sided; supranasals many, band-like, transverse. Palate toothed. Nostrils lateral in a nasal plate. Ears very small. Body elongate, lateral groove double. Legs 2, posterior, rudimentary, undivided. The Eastern World.

The SHELTOPUSIK. Pseudopus Pallasii, *Cuv. R. A.* ii. 69. *Dum. et Bib. E. G.* v. 417. *Gray, Ann. N. H.* i. 391. Lacerta apoda, *Pallas, N. Com. Petrop.* xix. 435, *t.* 9-10. L. apus, *Gmel. S. N.* 1079. Pseudopus serpentinus, *Merrem, Tent.* 78. Bipes Pallasii, *Oppel, Rept.* 43. *Wagler, Icon. t.* 14. Sheltopusik di dactylus, *Latr. Rept.* ii. 273. Seps Sheltopusik, *Daud. Rept.* iv. 351. *Mem. Soc. Mosq.* ix. *t.* 2, 3. P. Oppellii, *Bory, Exp. Morea, t.* 12, 13. *Bonap. Faun. Ital. t.*

Chesnut; scales dark-edged or spotted, of the back in 13 longitudinal series, very obscurely keeled, more distinctly so on the upper and lower part of the tail; internasal short, 6-sided; interparietal triangular, narrow, acute behind; frontonasal 3, subequal, in a cross series.

*a*. Adult, in spirits. Europe. Presented by Dr. John Richardson.
*b*, *c*. Adult, in spirits. Dalmatia. From M. Heckle's collection.
*d*. Young, in spirits. Grey, with brown cross bands; scales of the back and tail acutely keeled; ventral shields keeled. Epidarus, Morea. Presented by the Rev. W. Hennah.

Apodous Lizard, *Shaw, Zool. t.* Pseudopus D'Urvillii, *Cuv. R. A.* ii. 69. *Guerin, Icon. t.* 17, *f.* 1. *Bory, Voy. Morea, Rept. t.* 12, *f.* 2. P. Fischeri, *Menetries, Cat.* 65.

*e*—*g*. Adult, in spirits. Xanthus, Asia Minor. Presented by Charles Fellows, Esq.

The Slender Pseudopus. Pseudopus gracilis.

Brownish, with a dark streak on each side; back with cross rows of pale-edged black spots; scales of the back in 15 longitudinal series, bluntly keeled, rounded behind, keel more obscure near the nape, forming distinct ridges, more distinct on the hinder part of the body; of the belly smooth; of the under side of the tail very obscurely keeled; internasal and interparietal shields tapering or rounded behind, without any central shield between the frontonasals

*a*. In spirits. Khagic Hills. Presented by the Hon. East India Company.

18. Ophisaurus, *Daud.* Hyalinus, *Merrem.* Chamæsaura, part, *Schn.*

Head pyramidical; supranasal shields numerous, band-like. Nostrils lateral, in a nasal plate. Ear very small. Eyelids distinct. Palate with many rows of teeth. Body serpentiform, with 2 deep grooves upon the sides. Limbs none.

The Glass Snake. Ophisaurus ventralis, *Daud. Rept.* vii. 252, *t.* 88. *Gray, Ann. N. H.* i. 391. O. punctatus, and O. striatulus, *Cuv. R. A.* ii. 70. Anguis ventralis, *Linn. S. N.* 391. Glass Snake, *Catesb. Carol.* ii. *t.* 59. Ophisaurus lineatus, *Gray, Ann. N. H.* i. 391, (var.)

Brown, black and yellow spotted and streaked.

*a*. Adult, in spirits. Partly bleached. N. America.
*b*. Adult, in spirits. Brown-speckled, with a brown band on each side of the back. N. America. Presented by Dr. R. Harlan, Philadelphia.

## Fam. VI. Chlacides, (Chalcidæ).

Head covered with regular many-sided shields. Temples shielded. Tongue squamose, with 2 small pointed tips. Palate toothless. Nostrils lateral, between the first labial, and a nasal plate. Eyelid distinct. Ears hidden under the skin. Limbs 4, very short, rudimentary. Femoral pores none. Body elongate, cylindrical, with a slight granular groove on the front of each side. Scales of the back and tail 4 or 6-sided, imbricate, in cross bands; of the belly square.

*Synopsis of the Genera.*

1. Brachypus. Hind feet with 4 clawed toes.
2. Microdactylus. Hind feet with 3 tubercles.
3. Chalcis. Hind feet undivided. Scales square.
4. Bachia. Hind feet undivided. Scales 6-sided.

### 1. Brachypus, *Fitz.*, *Weigmann*, not *Swains.*

Head with 2 internasals; the interparietal as large as the parietal; 4 pair of palpebrals. Scales of the back 6-sided, narrow, thin, flat. Toes 4-4, clawed.

The Short-foot. Brachypus Cuvieri, *Fitz. Rept.* 50. *Dum. et Bib. E. G.* v. 453. Chalcide de quadredoigts, *Cuv. R. A.* ii. 66.

Brown or fulvous, with a pale streak on each side; ventral shields 6-rowed.

Inhab. N. America, Columbia. Mus. Paris.

### 2. Microdactylus, *Tschudi.*

Head with an internasal; 3 pair of palpebral plates, and an oblong triangular interparietal and no frontonasal shield. Scales of the back and sides rectangular, very narrow, smooth. Legs very short. Toes 3-3, like tubercles.

The Microdactyle. Microdactylus gracilis, *Tschudi*, *Mus. Leyd.* Chalcides Schlegelii, *Dum. et Bib. E. G.* v. 457.

Olive brown, below fulvous; dorsal scales in 25, and ventral shields in 8, longitudinal series; preanal plates 3.

Inhab. "India, Calcutta." Mus. Leyden.

### 3. Chalcis, *Merrem.* Chalcides, *Bonat, Weigm.* Chamæsaura, *Schu.* Colobus, *Merrem*, *not Illiger.*

Head without any internasal, rostral or interparietal shields, with 2 pair of palpebral. Scales of the back and sides rectangular, narrow, smooth. Toes 3-1, front tubercular, hind style-like.

The CHALCIS. Chalcis flavescens. Chalcides flavescens, *Bonnat, E. M.* 67, *t.* 22, *f.* 3. *Lacep. Q. O.* i. 443, *t.* 32. Chamæsaura Cophias, *Schneid. Amph.* 209. *Merrem, Tent.* 75. *Dum. et Bib. E. G.* v. 459. Chalcides tridactylus, and C. monodactylus, *Daud. Rept.* iv. 367, 370. Colobus Daudinii, *Merrem, Tent.* 76.

Scales of the back in 20, of the belly in 6, longitudinal series; preanal plates 4, 2 medial one before the other.

Inhab. Tropical America, Guiana. Mus. Paris.

4. BACHIA.

Head with no internasal nor interparietal plate, and with 2 very narrow palpebral shields. The fore feet with 3 small tubercles like toes, the hind feet very narrow, undivided. Scales of the back and sides 6-sided, narrow, smooth. Preanal plates 4, 2 middle one behind the other.

The CHILIAN CHALCIS. Bachia D'Orbignii. Chalcis D'Orbignii, *Dum. et Bib. E. G.* v. 462.

The dorsal scales in 19 and the ventral ones in 6 longitudinal series.

Inhab. Chili, Santa Cruz. Mus. Paris, 1 specimen.

II. *The sides rounded, covered with scales like the back.*

Fam. VII. ANADIAS, (ANADIADÆ).

Head with regular many-sided shields. Ears distinct, tympanum rather sunken. Eyelids distinct, lower pellucid. Scales of the back and sides squarish, 6-sided, thin, smooth, imbedded, not overlapping, in alternating cross rings; of belly 4-sided, smooth; of the tail 4-sided, smooth, in rings, one scale behind the other, so as to form longitudinal series. Sides rounded, with scales like the back. Scales of the throat square. Toes 5-5, unequal, clawed, rather depressed with a series of tubercles beneath. Nostrils in the facial ridge, in the suture between 2 nasal shields. The temples shielded. Preanal plates numerous, in 3 cross series. Femoral pores numerous.

1. ANADIA.

Toes 5-5, rather depressed.

The EYED ANADIA. Anadia ocellata.

Pale brown, bronzed, sides darker, with white-eyed black spots in front, beneath silvery, rather iridescent.

*a.* Adult, in spirits. Tropical America ??

## Fam. VIII. Chirocoles, (Chirocolidæ).

Head covered with regular many-sided shields. Tongue scaly, imbricate. Palate toothless. Nostrils lateral, in a single plate. Eyelids distinct, lower transparent. Collar double. Ears hidden under the skin. Body and tail elongate subcylindrical. Scales of the back, sides and tail slender, 6-sided, lanceolate, keeled, imbricate, in regular rings, those of the neighbouring rings alternating with each other; of the belly square, smooth, imbricate, in longitudinal series. Legs 4, short. Femoral pores numerous, in the centre of a scale.

1. Heterodactylus, *Spix*. Chirocolus, *Wagl*. Chalcides, *Cuv*.

Toes 5-5, hinder elongate, very unequal, the front thumb very short, rudimentary.

The Chirocole. Heterodactylus imbricatus, *Spix, Braz. t.* 27, *f.* 1, not good. *Gray, Ann. N. H.* i. 392. *Schinz, Rept.* 106, *t.* 41, *f.* 4. *Dum. et Bib. E. G.* v. 447.

Brown, with a pale streak upon each side; scales of the back keeled; abdominal shields 6-rowed; preanal plates 3.

Inhab. Brazils. Mus. Zool. Soc. Mus. Paris, 1 specimen.

## Fam. IX. Cercosaures, (Cercosauridæ).

Head with regular many-sided shields. Upper eyelids very short. Ears distinct. Throat with a double series of shields. Collar rather distinct. The body subcylindrical. Sides rounded, with scales like the back. Back and upper part of the tail with rings of large keeled scales forming longitudinal series. Belly and tail beneath with flat square shields in longitudinal series. Legs 4, moderate. Toes 5-5, unequal, smooth beneath. Tail round. America.

*Synopsis of the Genera.*

1. Cercosaura. Body elongate. Scales of back oblong, bluntly keeled. Femoral pores none.
2. Lepisoma. Body fusiform. Scales of back narrow, keeled. Femoral pores distinct.

1. Cercosaura, *Wagler*. Ecpleopus, *Dum. et Bib.* Orichochalcis, *Weigmann.*

Scales of the back large, oblong, quadrate, compressed, keeled, scarcely imbricate; of the tail imbricate. Toes 5-5, unequal, subcylindrical, smooth beneath. Femoral pores none.

The Eyed Cercosaurus. Cercosaura ocellata, *Wagler*, *Syst.* 158. *Weigm. H. Mex.* 10.

Black, with 4 white streaks, continued on the base of the tail, the outer from the back of the eyes and above the ears; head and body beneath yellowish; sides sprinkled with green, and with 8 or 9 white-eyed black spots; labial plate black-spotted.

Inhab. Asia?

Schreiber's Cercosaurus. Cercosaura Schreibersii, *Weigm. H. Mex.* 10. Tachydromus Schreibersii, *Fitz. Sys.* 50.

Olive brown, with 5 obscure black brown streaks, 3 continued on to the tail.

Inhab. Brazils. Mus. Berlin.

Gaudichaud's Cercosaurus. Cercosaurus Gaudichaudi. Ecpleopus Gaudichaudi, *Dum. et Bib. E. G.* v. 437.

Fulvous brown, with 1 or 2 whitish streaks on each side, beneath silvery.

Inhab. Brazils. Mus. Paris, (M. Gaudichaud).

Perhaps the same as the former.

2. Lepisoma, *Spix*. Lepidosoma, *Wagler*, *Weigm.* Pantodactylus, *Dum. et Bib.*

Head covered with large shields. Temples shielded. Teeth rather compressed, 3-cut, front simple. Tongue squamose. Palate toothless. Nostrils lateral, in a single nasal plate. Eyelids 2, distinct. Ear distinct. Body fusiform, sides rounded, without any groove. Scales of the back, sides and tail thin, 4-sided, elongate, narrow, keeled, keels forming longitudinal ridges; of the abdomen square, smooth; of the sides of neck very small, granular. Femoral pores distinct, (none, *Spix*). Legs 4, moderate. Toes 5-5, unequal, subcylindrical, smooth below.

The Lepidosome. Lepisoma scincoides, *Spix, Braz.* 24, *t.* 27, *f.* 2, "descriptio et icon. pess." *Wagler*, cop. Tropidosaurus scincoides, *Schinz*, *Abbild. Rept.* 91, *t.* 30. Pantodactylus D'Orbignii, *Dum. et Bib. E. G.* v. 431.

Scales of the back narrow, nearly lanceolate, keeled; of the sides of the neck very small, equal; ventral shields square, 6-rowed.

Inhab. Buenos Ayres? Mus. Paris, 1 specimen. Mus. Berlin.

## Fam. X. Chamæsaures, (Chamæsauridæ).

Head covered with regular many-sided shields. Tongue nicked. Palate toothless. Temple scaled like the back. Eyelids distinct, lower scaly. Body subcylindrical, elongate, the whole except the head covered with rings of elongate keeled scales, forming longitudinal series. Limbs rudimentary. Ears distinct, small. No lateral groove. Sides rounded, covered with scales, like the back. Africa.

### 1. Chamæsaura, *Fitz.* Chalcides, *Laur.* Chalcida, and Monodactylus, *Merrem.*

Feet fin-shaped, ending in a single claw. Nostrils in the lower hinder edge of the nasal shield. Back with 6 series of broad, belly and sides with many narrow, long, keeled scales. Head-plates keeled, elongate, scale-like, rather imbricate.

The Anguine Lizard. Chamæsaura anguina, *Schn. Amph.* 210. *Gray, Ann. N. H.* i. 392. *Dum. et Bib. E. G.* v. 441. Lacerta anguina, *Linn. S. N.* 371. *Seba, Thes.* ii. *t.* 8, *f.* 7, 8. Lac. monodactylus, *Lacep. Ann. Mus. N. H.* ii. *t.* 59, *f.* 1. *Daud. Rep.* iv. 342. *t.* 58, *f.* 1. *Shaw, Nat. Misc. t.* 947. Chalcides pinnata, *Laur. Syn.* 64. Chalcida anguina, *Merrem, Tent.* 31. Lizard Serpent, *Vosmaer*, 6. *t.* 1.

Brown, with a yellow streak on each side.

*a.* Adult, in spirits. Cape of Good Hope. Presented by Sir James Macgregor, M.D.

## Tribe II. Geissosaura.

Scales of the belly and (almost always) of the back and sides rounded, quincuncial, imbricate, formed of a more or less thick, vascular, bony plate, covered with a thin epidermis, often showing the vessels through it. Sides rounded, covered with scales like those of the back. Tongue narrow, short, flat, slightly nicked at the end. Head covered with regular many-sided shields (rather scale-like in Lialisidæ); neck not contracted. Body fusiform or subcylindrical. Preanal pores none, (except in Pygopus and Lialis).

A. *Eyes distinct, exposed. Eyelid rudimentary. Head conical.*

### Fam. XI. Gape-eyed Scincks, (Gymnophthalmidæ).

Nostrils lateral, in a single nasal plate. Teeth conical, simple. Palate toothless. Tongue scaly, nicked at the tip. Eyes naked; eyelids rudimentary, circular, ring-like and immoveable. Ears distinct. Body fusiform. Limbs 4, weak, unequal. Femoral pores none.

*Synopsis of the Genera.*

a. *Head conical. Rostral rounded.*

* *Scales keeled.*

1. Gymnophthalmus. Toes 5-4.

** *Scales smooth, keelless.*

2. Ablepharus. Toes 5-5. Supranasal none; frontoparietal plate double. Ears exposed.
3. Cryptoblepharus. Toes 5-5. Supranasal none; frontoparietal plate single. Ears exposed.
4. Morethia. Toes 5-5. Supranasal 2, band-like; fronto-parietal single. Ears distinct.
5. Menetia. Toes 4-5. Frontoparietal single. Ears hidden.
6. Micalia. Toes 4-4. Frontoparietal double; rostral truncated; nasal transverse, band-like. Ears hidden.

b. *Head wedge-shaped. Rostral rather produced.*

7. Lerista. Toes 2-3. Scales smooth.

a. *Head conical. Rostral rounded.*

* *Scales keeled.* American.

1. GYMNOPHTHALMUS, *Merrem.* Salamandra, *Lacep. Latr.*

Head 4-sided, rather depressed. Rostral plate large, 6-sided. Eyelid none apparent. Eyes distinct, open. Nostrils lateral, in a large square nasal plate; supranasal none. Tongue scaly, nicked at the tip. Palate toothless, with a longitudinal groove. Body fusiform. Scales of the back and tail keeled, 6-sided, wider than long. Legs 4. Toes 4-5, unequal, clawed. Preanal scales 4.

The AMERICIMA. Gymnophthalmus lineata, *Gravenh. Cat. Mus. Bres. t.* 25. *Gray, Ann. N. H.* ii. 335. Gymn. quadrilineata, *Nieuwied, Braz. Abbild. t.* *Dum. et Bib. E. G.* v. 820. G. Merremii, *Coct. Scinc.* 1. Seps lineatus, *Laur. Syn.* 60. Scincus quadrilineatus, *Daud. Rept.* iv. 266. S. cyanurus, *Schinz. Seba, Thes.* ii. 43, *t.* 46, *f.* 6. *Petiver, Gaz. t.* 59, *f.* 4. Lacerta lineata, and L. 4-lineata, *Gmel.*

Brownish-green bronze, sides blackish, with a yellowish streak above and below.

Inhab. Brazils and Martinique. Mus. Paris.

** *Scales smooth.* Old World and Australasia.

2. ABLEPHARUS, *Cocteau, Weigmann.*

Head subquadrangular. Nostrils lateral, in the middle of triangular approximating nasals; frontoparietal plates 2; supranasal none; internasal single. Eyelids rudimentary, circular, more or less mobile. Pupil round. Tongue flat, scaly, nicked at the tip. Teeth simple, conical. Palate not toothed, with a triangular notch. Ears distinct. Body fusiform. Scales smooth. Legs 4. Toes 5-5, unequal, rather compressed. Preanal plates 2, large.

* *Ears very small, nearly hidden. Eyelid half-circular.*

The HUNGARIAN ABLEPHARUS. Ablepharus Pannonicus, *Licht. Doub.* 103. *Fitz. Berol. Mag.* 1824, 297, *t.* 14. *Gray, Ann. N. H.* i. 335. Scincus Pannonicus, *Schreib. Mus. Vienna.* S. platycephalus, *Peron, Mus. Paris.* Lacerta nitida, *Kitaibel, Mus. Paris.* Ablepharus Kitaibelii, *Exped. Morea, Rept.* 69, *t.* 11, *f.* 4. *Coct. Scincoide, t.* *Dum. et Bib. E. G.* v. 809.

Coppery green, with a white-edged brown band on each side; eye with only a posterior half-circular lid; body elongate; ears very small, nearly hidden; limbs short, front only as long as the neck.

*a, b.* Adult, in spirits. Eastern Europe. Hungary. From Dr. Heckle's collection.

*c.* In spirits, not in a good state. E. Europe. From the Berlin Museum.

** *Ear moderate. Eyelid circular.*

The Two-streaked Ablepharus. Ablepharus bivittatus. Scincus bivittatus, *Menest. Cat.* 64. A. Menestriesii, *Dum. et Bib. E. G.* v. 811.

Copper green, scales brown-edged, with 4 series of brown-edged grey spots; eyelid circular; ears moderate, circular, even, simple-edged; limbs moderate, fore legs extending to the eye.

Inhab. Talysche Mountains, Perimbal, *Menestries.*

3. Cryptoblepharus, *Cocteau, Weigmann.* Ablepharus, part, *Dum. et Bib.*

Head pyramidical. Frontoparietal plate single. Nostrils lateral, in a single nasal; supranasal none. Eyelid rudimentary, circular. Ears moderate, open. Tongue flat, scaly, nicked at the tip. Palate toothless. Body fusiform, scales smooth, or very finely and indistinctly grooved. Legs 4. Toes 5-5, unequal, rather compressed. Tail roundish, tapering, acute. Preanal scales in 3 rows.

* *Eyelid complete, with a series of larger scales above.*

The Pete. Cryptoblepharus Boutonii. Scincus plagiocephalus, *Peron, Mus. Par.* S. Boutonii, *Desjard. Ann. Sci. Nat.* xxii. 1831. 298. S. arenarius, and S. furcatus, *Schlegel, Mus. Leyd.* S. aureus, *Mus. Paris.* Cryptoblepharis Peronii, *Coct. Scincoides, i. t. Mag. Zool. t. Dum. et Bib. E. G.* v. 812. C. Leschenaultii, *Coct. Scinc. t.* Ablepharus pœcilopleurus, *Weigm. N. Act. N. Cur.* xv. 183, *t.* 8, *f.* 1. *Gray, Ann N. H.* ii. 335, *and Grey, Trav. Austr.* ii. 426. *Seba, Thes.* ii. 4, *t.* 2, *f.* 9-10. Tiliqua Buchanani, *Gray, Ann. N. H.* ii. 291.

Olive or bronzed, brown-varied; scales black-streaked; eyelid circular, scaly, with the three upper scales largest; ears moderate, suboval, open, simple-edged; rostral plate very large, triangular; preanal plates 6 or 7, nearly equal.

*a.* Adult, in spirits. Dark bronze green, with 3 or 4 streaks of black dots. Isle of France. Presented by M. Bibron, of Mus. Paris.

*b—d.* Adult, in spirits. Brownish, with a bright yellowish streak on each side. Timor. From the Leyden Museum.

*d—m.* Adult, in spirits. W. Australia. From Mr. Gould's collection.

*n—p.* Adult, in spirits. W. Australia. From Mr. Buchanan's collection.

T. Buchanani, *Gray, Ann. N. H.* ii. 291.

** *Eyelid incomplete, no scales between the eye and eyebrow above.*

The EYED PETE. Cryptoblepharus lineo-ocellatus, *Gray, in Grey, Trav. in Austr.* ii. 427. *Zool. Erebus and Terror, Rept. t.* Ablepharus lineo-ocellatus, *Dum. et Bib. E. G.* v. 817.

Back grey or reddish, with 4 series of white-edged black spots and edged with a pale streak, and a black-edged white streak on each side; upper lip white; eyelids circular, covered with small equal scales, without any between the eye and superciliary plates; rostral plate small, very broad, 6-sided; frontal plate broader than long; ears moderate, suboval, with 2 or 3 denticulations in front; head short.

*a—d.* In spirits. Swan River.

### 4. MORETHIA.

Head pyramidical. Frontoparietal shields single. Nostrils lateral, in a small shield, with a small supranasal above it, and a smaller nasoloreal shield behind it; eyelid rudimentary, circular; ears moderate, open, denticulated in front; body fusiform; scales smooth; legs 4, weak; toes 5-5, unequal, rather compressed; tail roundish, tapering, acute; preanal scales rather larger.

This only differs from *Cryptoblepharus* in the nasal shields; it is as if the nasal shield of that genus was divided into three small plates.

The MORETHIA. Morethia anomalus, *Gray, Zool. Erebus and Terror, t.*

Olive, bronzed, black-spotted; eyelid, scales equal; ears with 3 or 4 small denticulations in front.

*a.* Adult, wants tail. W. Australia. From Mr. Gilbert's collection.

*b.* Young. Sides with a dark-edged white streak. W. Australia. From Mr. Gilbert's collection.

### 5. MENETIA.

Head subquadrate. Muzzle rounded. Rostral plates moderate. Nostril lateral, in an oblong nasal shield; supranasal none; frontoparietal shield single, rhombic. Eyes moderate, the pupil round. Eyelid rudimentary, circular. Ears small, covered with the scales. Body elongate, fusiform, subcylindrical, rounded on the sides. Scales smooth. Legs 4, weak. Toes 4-5, slender, rather compressed, unequal, clawed. Tail subcylindrical, tapering. Australia.

The MENETIA. Menetia Greyii, *Gray, Zool. Erebus and Terror, Rept. t.*

Olive, bronzed, with a pale narrow streak, externally edged with a very narrow black line.

*a—e.* In spirits. W. Australia. From Mr. Turner's collection.
*f.* In spirits. W. Australia. From Mr. Gould's collection.

### 6. MICULIA.

Head conical, Muzzle rounded; rostral plate rather large, with a straight edge behind. Nostrils lateral, in the middle of 2 transverse nasal scales edging the back of the rostral; supernasal none; frontoparietal shield double. Eyes moderate, pupil round. Eyelid rudimentary, circular, granular. Ears, none visible. Body subcylindrical, rounded on the sides. Scales smooth. Legs 4, weak. Toes 4-4, slender, rather compressed, simple, unequal, clawed, the 2 middle front subequal, longest, the third hinder very long. Tail cylindrical, tapering. Australia.

The MICULIA. Miculia elegans, *Gray, Zool. Erebus and Terror, t.*

Olive, with a dark streak on each side, with a narrow white edge below; beneath pale whitish; tail brown-dotted; eyelid interrupted above.

*a—c.* Adult, in spirits. W. Australia. From Mr. Gilbert's collection.

b. *Head wedge-shaped. Rostral rather produced.* Australia.

### 7. LERISTA, *Bell.*

Muzzle rather wedge-shaped. Rostral plate large, bent back on the upper and lower part of the muzzle. Nostril lateral, in a large nasal plate; supranasal none. Eyelid rudimentary, circular, granular. Ears distinct, very small. Palate with a slight triangular nick behind. Body fusiform, rounded above, flat beneath. Scales smooth. Tail conical. Legs 4. Toes 2-3, unequal, clawed, subcylindrical, simple. Preanal plates 2.

"The ear-hole is so small that it was overlooked by Mr. Bell."

The LERISTA. Lerista lineata, *Bell, Pr. Zool. Soc.* 1833, 99. *Zool. Journ.* v. 393, *t.* 26, *f.* 2. *Gray, Ann. N. H.* ii. 335. *Dum. et Bib. E. G.* v. 825.

Greenish grey, with 2 black streaks.
Inhab. New Holland. Mus. Bell.

## Fam. XII. The Pygopodes, (Pygopidæ).

Head pyramidical, shielded, short, with 2 or 3 pair of band-like supranasal shields above the nasal shield, with a large internasal and frontal shields. Nostrils oblong, in the lower angle of the band-like transverse nasal, appearing in the suture between the outer angle of the nasal, the front loreal shield, and the lower labial plates. Throat covered with small scales. Teeth conical, simple. The palate toothless, with a broad longitudinal groove. Tongue flat, scaly in front, velvety behind, rounded and nicked at the end. Ears distinct, exposed, tympanum sunk. Eyelid rudimentary, circular, immovable, scaly. Body cylindrical, elongate. Ventral shields broad, 6-sided, in 2 or 4 series. Tail with 3 series of broader shields, the central broadest. Limbs 2, posterior, rudimentary, undivided, scaly, on the side of the vent.

*Synopsis of the Genera.*

1. Pygopus. Scales of the back keeled. Preanal porès numerous. The hinder limbs elongate. Pupil circular.
2. Delma. Scales smooth. Preanal pores none. Pupil elliptical, erect. Hinder limbs short.

### 1. Pygopus, *Fitz.*, *Merrem.* Bipes, *Cuv.* Hysteropus, *Dum. et Bib.* Sheltopusik, *Oppel.*

Head short, truncate, rounded, with 2 parietal and a pair of occipital plates. Rostral plate large. Pupil circular. Scales of the back keeled. Ear ovate. Vent with a series of pores in front. Hinder limbs elongate, ovate, compressed, scaly. Tail cylindrical, rather tapering.

The Pygopus. Pygopus lepidopodus. Bipes lepidopodus, *Lacep. Ann. Mus. N. H.* iv. 193, 209, *t.* 55, 1. *Schinz. Abbild. t.* 42, *f.* 2. Pygopus lepidopus, *Merrem, Tent.* 77. *Bory, Res. Erpet.* 142, *t.* 27, *f.* 2. Hysteropus Novæ Hollandiæ, *Dum. et Bib. E. G.* v. 828, *t.* 55. Sheltopusik Novæ Hollandiæ, *Oppel, Rept.* 40.

Coppery grey, with 5 series of oblong, 4-sided, white-edged, black spots and some oblique black streaks on the side of the neck; muzzle with 2 pair of broad transverse frontals, similar in shape to the nasals.

*a*. Adult, in spirits. Australia.
*b*. Adult, in spirits. Australia. Presented by the Rev. N. Wilton.
*c*, *d*. Adult, in spirits. With 3 rows of large, white-sided, black spots, with a small plate between the supranasals. Swan River. Presented by Dr. Richardson.

The Scaly-faced Pygopus. Pygopus squamiceps, *Gray, Zool. Erebus and Terror, Rept. t.*

Muzzle with 5 series of supranasal plates; grey, with a series of small spots on each side.

*a.* Adult, in spirits. Australia. Presented by Dr. Mair.

2. Delma, *Gray.* Pygodactylus, part, *Weigm.*

Head elongate, shielded, with 2 parietal and a pair of large occipital shields. Rostral plate transverse, moderate. Eye circular; pupil elliptical, erect. Ears ovate, open, simple-edged. Body subcylindrical. Tail tapering. Scales smooth. Hinder limbs short, scaly. Vent without any pores in front.

Fraser's Delma. Delma Fraseri, *Gray, Zool. Misc.* 14. *Grey, Trav. in Austr.* ii. 427, *t.* 4, *f.* 3.

Olive, head white, with 4 more or less confluent black bands; sides of neck white-spotted, beneath white.

*a.* Adult, in spirits. Western Australia. Presented by James Hunter, Esq.

*b.* Half-grown, in spirits. Western Australia. From Mr. Gilbert's collection.

## Fam. XIII. Aprasiae, (Aprasiadæ).

Nostrils small, in the suture between the top of the first upper labial and the square supranasal. Head small, half-conic, shielded. Muzzle rather produced, acute. Frontonasal large, covering the cheeks. Frontal shield large, elongate, 6-sided. Superciliary shields 2 pair, small. Labials few, large. Eyelid rudimentary, circular, edged with a series of small scales. Pupil round. Ears hidden under the scales. Body and tail cylindrical, tapering, covered with hexagonal scales, and rather broader ventral shields. Limbs none. Preanal pores none.

1. Aprasia, *Gray.*

Limbs none. Scales smooth.

The Aprasia. Aprasia pulchella, *Gray, Ann. N. H.* ii. 322. *Grey, Trav. Austr.* ii. 428-438, *t.* 4, *f.* 2.

Pale brown, with a series of brown spots, 1 spot in the centre of each scale; sides with the spots more connected, forming interrupted streaks; lips yellow.

*a, b.* Half-grown, in spirits. W. Australia. From Mr. Buchanan's collection.

*c.* Adult, in spirits. W. Australia. From Mr. Turner's collection.

## Fam. XIV. Lialises, (Lialisidæ).

Head elongate, depressed. Cheeks scaly, covered with rather imbricate scales. Muzzle flattened in front. Nostrils in the hinder edge of a small nasal shield in front of the face-ridge. Eyelid rudimentary, circular, scaly. Pupil elliptical, erect. Ears distinct. Body elongate, subcylindrical. Scales oval, smooth, imbricate. Belly with 2, tail with 1, series of larger shields. Limbs 2, posterior, short, undivided, flat, scaly. Tail rather tapering, elongate. Vent with a series of pores in front, in the front edge of a scale.

### 1. Lialis, *Gray*.

The only genus.

Burton's Lialis. Lialis Burtoni, *Gray*, *Proc. Zool. Soc.* 1834, 134. *Grey's Travels*, ii. 437, *t.* 3, *f.* 1. *Zool. Misc.* 52. *Dum. et Bib. E. G.* v. 831.

Above, grey olive, in spirits, with 5 rather interrupted brown longitudinal streaks, the central streak divided into two over the nape, and united together again over the nose, the outer lateral streaks narrowest and more interrupted, edged with the two colors; beneath blackish grey, with large white spots; lips and streak under ear and along the side of the neck white.

*a*, *b*. Adult female, in spirits. W. Australia, Houtman's Abrolhos. From Mr. Gilbert's collection.

*c*. Half-grown, in spirits. W. Australia.

The Two-lined Lialis. Lialis bicatenata, *Gray*, *Zool. Misc.* 52. *Voy. Erebus and Terror*, *Rept. t.*

Above brown grey, in spirits, with a series of distant black spots (one on the centre of each scale) along each side of the back; top of the head and nape with an indistinct double band, forming an elongated loop; beneath blackish grey, whitish dotted; chin and throat blackish, white-spotted; lip-shields brown.

*a*, *b*. Half-grown, in spirits. Partly bleached. Throat like rest of under side. Australia. Presented by Sir James Macgregor.

*c*. Adult, in spirits. Port Essington. From Mr. Gilbert's collection.

*d*, *e*. Half-grown, in spirits. Not good state. Australia.

The Dotted Lialis. Lialis punctulata, *Gray*, *Zool. Misc.* 52. *Zool. Erebus and Terror*, *Rept. t.*

Brownish grey, very minutely black-dotted, beneath darker brownish grey, the two colours separated by a very narrow brown edge and a distinct white line; sides of the head and neck dark chocolate brown, edged above with a very narrow, and beneath by a broader white band; front upper and side lower labial plates white, the rest dark brown.

*a.* Adult female, in spirits. Tail reproduced, shortened. Port Essington. From Mr. Gilbert's collection.
*b.* Adult, in spirits. W. Australia. From Mr. Dring's collection.

II. *Eyes distinct, eyelids distinct, valvular. Head conical.*

## Fam. XV. The Scincs, (Scincidæ).

Head subquadrangular, regularly shielded. Rostral plate moderate, erect, sometimes rather produced and transversely keeled. Nostrils lateral, in a more or less large nasal shield, with sometimes a supranasal over it between the nasal and internasal. Body fusiform or subcylindrical. Tail cylindrical or tapering. Scales smooth, or keeled, or striated. Limbs 4, more or less strong, sometimes wanting, or rather hidden under the skin. Femoral pores none.

*Synopsis of the Genera.*

I. *Scales thin, smooth, not striated nor keeled. Nostrils in a single smooth plate, without any lunate groove behind. Tail round, tapering, unarmed.*

A. *Toes depressed, fringed on the sides. Head wedge-shaped. Rostral depressed, keeled in front. Nostril in the middle of the upper edge of the nasal, with a triangular supranasal above the rostral.* Scincina.

1. Scincus. Body fusiform, flat below. Toes 5-5.

B. *Toes compressed, simple. Head subquadrangular. Rostral erect, triangular. Nostril in the middle of a shield.*

a. *Supranasal plate none.*

* *Body fusiform. Lower eyelid covered with scales; frontoparietals* 2.

2. Hinulia. Head subquadrangular. Heel surrounded with granules.

3. Keneuxia. Head depressed in front. Rostral and labials low. Heel with a flat oval plate behind.

4. Elania. Head conical. Rostral rather produced. Heel surrounded with granules.

** *Body fusiform. Lower eyelid with a transparent disk.*

5. Mocoa. Rostral erect, triangular. Palate toothless.

6. Leilopisma. Rostral erect, triangular. Palate toothed. Parietal plates 2, large, square.

7. LIPINIA. Rostral depressed, large. Head flattened. Nasal lateral, square.

*** *Body and tail cylindrical, elongate. Limbs 4, weak, far apart. Rostral erect, rounded. Fronto-nasals distinct.*

† *Toes elongate, unequal.*

8. LYGOSOMA. Toes 5-5. Lower eyelid scaly.

9. ?RISTELLA. Toes 4-5. Lower eyelid ——— ? Supranasal ——— ?

10. TETRADACTYLUS. Toes 4-4, the third longest, the fourth short. Lower eyelid transparent.

11. HEMIERGUS. Toes 3-3, unequal, middle one rather longest. Lower eyelid transparent.

12. CHELOMELES. Toes 2-2, unequal. Lower eyelid transparent.

†† *Toes short, thick, subequal.*

13. OMOLEPIDA. Toes 5-5, rather short, subequal. Lower eyelid scaly. Ear deep, simple in front.

14. PODOPHIS. Toes 5-5, short, subequal. Lower eyelid scaly. Frontoparietal single.

**** *Body and tail cylindrical, elongate. Limbs rudimentary or wanting. Rostral rather produced; frontonasal very small, lateral. Head half conical.*

15. SIAPHOS. Legs 4. Toes 3-3, very short, the middle longest.

16. RHODONA. Legs 4; fore legs rudimentary, undivided, clawless, hinder with 2 short, unequal, clawed toes.

17. SORIDIA. Legs none.

b. *Supranasal plates 2, rarely 4 or 6.*

* *Body fusiform. Tail tapering. Limbs strong. Supranasals 2.*

18. PLESTIODON. Lower eyelid scaly. Scales large. Body fusiform. Palate toothed. Frontoparietal double.

19. EUMECES. Lower eyelid scaly. Scales large. Body and tail elongate. Palate toothless. Frontoparietal double.

20. OTOSAURUS. Lower eyelid scaly. Scales small. Body fusiform. Palate toothless. Frontoparietal double.

21. MABOUYA. Lower eyelid transparent.

** *Body and tail elongate, subcylindrical. Legs 4, short. Toes compressed, unequal. Supernasal 1 pair.*

22. RIOPA. Toes 5-5, unequal.

23. HAGRIA. Toes 5-4, unequal.

24. CHIAMELA. Toes 4-4, unequal.

*** *Body and tail elongate, subcylindrical. Legs* 4, *very short. Toes very short, subequal or rudimentary. Supernasals* 1 *pair.*

25. SENIRA. Toes 5-5, rounded, thick, very short.

26. BRACHYMELES. Fore feet very short, with 2 very short toes; hinder tapering, undivided.

**** *Body and tail elongate, subcylindrical. Legs* 2, *posterior, or none. Supranasals* 2 *or* 3 *pair.*

27. OPHIODES. Legs 2, on side of vent, undivided.

28. ANGUIS. Legs none external.

II. *Scales thick, bony, rugose, striated, or* 1 *or more keeled. Rostral rounded in front. Body fusiform. Limbs* 4, *strong. Toes* 5-5, *compressed.*

C. *Tail compressed, keeled above. Scales of the tail keeled, spinose, of the body smooth. Head-shields rugose, closely applied to the skull. Temples shielded. Lower eyelid scaly. Preanal plates few, large.*

29. TRIBOLONOTUS. Tail with 4 spinose keels above, and spinose on the sides. Preanal plates 2, large.

30. TROPIDOPHORUS. Tail with 4 spinose keels above, smooth on the sides. Preanal plates 3, large, central triangular.

31. NORBEA. Tail with 2 close rows of keeled scales above, smooth on the sides. Preanal plates single, square, very large.

D. *Tail rounded, tapering, rarely spinose, not keeled above, thick, bony, rugose, or* 3 *or* 5 *keeled, rarely smoothish.*

* *Supranasal shields none.*

† *Lower eyelid scaly. Toes* 5-5. *Nostril with a curved groove behind it.*

§ *Toes short, thick, subequal. Scales rugose, unarmed. Orbit with a series of plates beneath.*

32. TRACHYDOSAURUS. Tail short, thick, depressed, truncated. Body fusiform. Scales very thick, rugose. Ears lobed in front.

32. CYCLODUS. Tail moderate, round, tapering. Body fusiform. Scales moderate, subequal. Ears lobed in front.

§§ *Toes elongate, compressed, unequal. Scales* 1—5*-keeled. Orbits simple.*

33. Silubosaurus. Tail short, depressed, spinose. Scales 1-keeled.

34. Egernia. Tail elongate, round, tapering, spinose. Scales 1-keeled, dagger-pointed.

35. Tropidolepisma. Tail elongate, round, tapering, armed. Scales 3- or 5-keeled, slightly toothed behind. Frontal short.

36. Lardella. Tail elongate, tapering, unarmed. Scales 2-keeled. Frontal very long.

†† *Lower eyelid scaly. Toes* 5-5. *Nasal plate flat, without any groove behind it.*

37. Ateuchosaurus.

††† *Lower eyelid transparent. Toes* 4-5. *Nasals* ———— ?

38. Heteropus. Tail and body elongate, subcylindrical. Scales 3-keeled. Legs weak. Ears —— ?

** *Supranasals* 1 *pair. Scales moderate,* 3- *or* 5*-keeled. Palate toothed.*

39. Dasia. Lower eyelid scaly. Toes dilated at the base.

40. Tiliqua. Lower eyelid scaly. Toes compressed the whole length.

41. Euprepis. Lower eyelid transparent. Ears oblong, lobulated in front, or covered with the scales of the temple. Toes compressed the whole length.

E. *Tail round, tapering, unarmed, not keeled above. Scales minutely striated, and sometimes* 1*-keeled. Supranasals two pair.*

42. Microlepis. Body fusiform. Head depressed. Tail elongate, compressed.

43. Celestus Body fusiform. Tail tapering. Head depressed. Internasal and frontonasal united into 1 shield. Claws short.

44. Camilia. Body fusiform. Tail tapering. Head square. Internasal and frontonasal separate. Claws broad, blunt.

45. Diploglossus. Body and tail cylindrical, elongate.

I. *Scales thin, smooth, not striated nor keeled, unarmed. Nasal flat, smooth, without any lunate groove behind the nostril. Tail round, tapering, unarmed.*

A. *Toes depressed, fringed on the side. Head wedge-shaped. Rostral depressed, keeled in front. Nostril in the middle of the upper edge of the nasal, with a triangular supranasal above the nostril.* Scincina.

1. Scincus, *Fitz., Gray.*

Muzzle wedge-shaped. Rostral depressed, sharp-edged, truncated in front. Frontoparietal plates 2. Nostril lateral, in the upper front edge of the nasal, immediately under the triangular supranasal. Lower eyelid scaly. Tongue scaly, nicked. Palate toothed, with a longitudinal notch. Ears small, toothed in front. Limbs 4, short. Toes 5-5, nearly equal, flatted, toothed on the edge. Body angular below. Scales smooth. Tail conical, pointed.

Bury themselves with great rapidity in the sand, *Bruce. Lyon's Trav.* 184-5.

The Officinal Skink. Scincus officinalis, *Laur. Syn.* 55. *Schn. Savig. Rept. Egypt. t.* 2, *f.* 8. *Gray, Ann. N. H.* ii. 288.—*Dum. et Bib. E. G.* v. 564, *t.* 57, *f.* 3, the foot. Lacerta Stincus, *Hasselq.* L. Scincus, *Linn. S. N.* i. *ed.* 10, 205. El Adda, *Bruce, Voy.* v. 226, *t.* 39, cop. *Shaw, N. Misc. t.* 1031. *Sav. Rep. Egypt.* i. *t.* 2, *f.* 8. L. agilis, *Meyer*, 133, *not Linn.* L. Edda, *Donndroff, Zool. Beytr.* ii. 134. Asilis, *Lyon, Trav.* 184-5.

Fulvous, with brown cross bands; preanal scales 2.

*a.* Adult, in spirits, bleached. N. Africa.
*b.* Adult, in spirits. N. Africa, Egypt. Presented by M. Lefebre.
*c, d.* Adult and half-grown, in spirits. N. Africa, Egypt. Presented by Sir J. Gardner Wilkinson.

B. *Toes compressed, simple. Head subquadrangular. Rostral erect, triangular. Nostril in the middle of nasal shield.* Lygosomina.

a. *Supranasal plate none. Body fusiform. Lower eyelid covered with scales. Frontoparietal separate.*

2. Hinulia. Lygosoma, part, *Dum. et Bib.* Le Keneux, part, *Cocteau.*

Frontal plate oblong. Rostral erect, triangular. Palate toothless, with a deep triangular notch in front. Body fusiform. Scales smooth, thin; the 2 central preanal scales larger than the rest. Tail tapering, roundish. Legs moderate. Toes 5-5, slender, compressed. Heel of the hind feet surrounded with granules.

* *Ears simple, in front roundish.*

† *Scales small, numerous.*

The Black-bearded Hinulia. Hinulia nævia. Tiliqua nævia, *Gray, in Grey, Trav. Aust.* ii. 426. Scincus nævius, *Perron, Mus. Paris.* S. erythrolamus, and S. melanopogon, *Muller, Mus. Leyd.* Lygosoma melanopogon, *Dum. et Bib. E. G.* v. 723.

Brown, with irregular, interrupted, brown, cross bands, beneath whitish; legs with a pale streak in front; chin black, spotted or varied; scales small; head large, short; supraocular plates 6 or 7 pair; nasal lateral, square; tail rather compressed.

*a.* Adult, in spirits. New Guinea. From the Leyden Museum.
*b.* Philippine Islands. From Mr. Cuming's collection.

The White-banded Hinulia. Hinulia fasciata.

Black, with a series of narrow white cross bands on each side, interrupted in the middle of the back, beneath white; legs white-spotted; scales small, in many series; supraocular shields 5-5; nostrils in a subtriangular nearly touching shield; tail rather compressed.

*a.* In spirits. Philippine Islands. From Mr. Cuming's collection.

†† *Scales moderate, in* 8 *series. Supraocular shields* 3-3 *or* 5-5.

Dussumier's Hinulia. Hinulia Dussumieri. Lygosoma Dussumieri, *Dum. et Bib. E. G.* v. 725. Keneux de Dussumier, *Coct. Tab.*

Back fulvous, with a black streak upon each side; sides with white-edged black streaks, beneath whitish; tail round; legs long; toes simple; supraocular plates 4; nostrils lateral; nasal square, internasal rhombic, truncated in front; ears large, oval, open, simple-edged.

Inhab. Malabar, *Dussumier.* Mus. Paris.

Gerrard's Hinulia. Hinulia Gerrardii, *Gray, Voy. Erebus and Terror, Rept. t.*

Silvery grey (when dry), with a broad irregular brown band across the back of the neck, with a streak to the occiput, and a broader one to each fore leg; body with 6, tail with 12 or 14 broad crescent-like cross brown bands, which are spotted with grey when they cross the side; limbs with brownish streaks; head brown above, head-shields black-edged, with a brown streak on the temple, towards the ear; chin white, brown-lined, belly brown-spotted; ear open, simple in front, partly covered by the temple-scales; supraocular plates 3-3, nasal nearly contiguous, frontonasal and frontoparietal contiguous.

*a, b.* Adult, stuffed. Australia ?? Length 14 inches.

The Elegant Hinulia. Hinulia elegans, *Gray, Zool. Erebus and Terror, Rept. t.*

Pale brown, back varied with black spots, more close forming an irregular broad dark streak on the upper part of each side; beneath whitish; chin varied with black; lips and limbs blackish varied; nasal and frontonasal nearly contiguous; ears ovate, open, simple-edged.

*a.* In spirits. New Holland.

The Swan River Hinulia. Hinulia Greyii, *Gray, Zool. Erebus and Terror, Rept. t.*

Olive, black-varied, with a dark-edged yellow streak on each side of the back, sides black-spotted, with a yellow streak below; legs brown-streaked; lip-shields black-edged; ears oblong, smooth-edged; frontal triangular, elongate; frontonasal contiguous, frontoparietal and parietal small, similar; body thick, fusiform.

*a.* In spirits. Swan River.

The Slender Hinulia. Hinulia tenuis. Tiliqua tenuis, *Gray, Griffith, A. K.* ix. 71. *Ann. N. H.* ii. 291. Scincus Erucatus, *Peron, Mus. Paris.* Lygosoma erucata, *Dum. et Bib. E. G.* v. 726. Keneux de Busseuil, *Coct. Tab.*

Pale brown, varied, with an irregular edged brown streak on each side; scales in 8 series; feet long, toes very slender; muzzle rather short; supraocular shields 4; ears round, open, simple-edged; nostrils lateral, nasal triangular, frontonasal nearly contiguous; tail elongate, rather compressed.

*a.* In spirits. Australia.
*b, c.* Sides white-speckled. W. Australia, Swan River. From Mr. Gilbert's collection.

Reeves's Hinulia. Hinulia Reevesii. Tiliqua Reevesii, *Gray, Ann. N. H.* ii. 292. Scinque à flanc noir, *Quoy et Gaim. Voy. Uran. t.* 42, *f.* 1. Keneux de Quoy, *Coct. Tab.* Lygosoma Quoyii, *Dum. et Bib. E. G.* v. 728.

Pale olive, with a white-dotted dark streak on the upper part of each side; head short; supraocular shields 5-5; ears ovate, open, simple-edged; nasals lateral, rhombic, nearly contiguous; tail slightly compressed.

*a, b.* In spirits. China. Presented by J. R. Reeves, Esq.

The Javan Hinulia. Hinulia sancta. Scincus sanctus, *Boie, MSS. Mus. Leyd.* Lygosoma sancta, *Dum. et Bib. E. G.* v. 730.

Greyish, with a rather darker band on each side; nasal small, lateral; ear round, open, simple-edged; supraocular shields 5-5.

Inhabits Java. Mus. Paris. A young specimen in a bad state, probably the same as the former.

The New Zealand Hinulia. Hinulia ornata. Tiliqua ornata, *Gray, Dieff. N. Z.* ii. 202. *Zool. Erebus and Terror, Rept. t.*

Bright pale brown, varied with black and white spots, sides with an irregular narrow pale streak above; scales with short black streaks, some black on each side, white in the centre; ears moderate, roundish, simple-edged.

*a.* In spirits. Brown, with black and white spots. Cook's Straits N. Zealand. Presented by R. Owen, Esq.

*b.* In spirits. Brown, with 3 blackish streaks, sides blackish, edged above and below with an irregular edged pale line. N. Zealand.

** *Ears denticulated in front.*

† *Scales moderate, in 4 series.*

Labillardiere's Hinulia. Hinulia Labillardieri, *Gray, Zool. Erebus and Terror, Rept. t.* Keneux de Labillardiere, *Coct. Tab.* Tiliqua Labillardieri *Gray, Ann. N. H.* ii. 289. *Dum. et Bib. E. G.* v. 734.

Bronze green, speckled or lined with black, sides black, white-dotted and with 2 white streaks; nasals rhombic, large, nearly contiguous, frontonasal plates separate; ears ovate, slightly denticulated in front; scales of the back large, in 4 series.

*a.* In spirits. Australia, King George's Sound. From the Paris Museum.

*b.* Swan River. From Mr. Gould's collection.

*c.* Young, in spirits. Bronze green, with a series of round white spots in the black on the sides of the back. W. Australia.

The Australian Hinulia. Hinulia australis, *Gray, Zool. Erebus and Terror, Rept. t.* Tiliqua australis, *Gray, Ann. N. H.* ii. 291. Lygosoma Lesueurii, *Dum. et Bib. E. G.* v. 733. *Gray, Grey's Austr.* ii. 425.

Pale brown, with a central white-edged brown streak; sides black with a narrow white streak above, a series of oblong white spots, as if formed of an interrupted streak, and a rather wide indistinct pale streak below; ears half ovate, with 4 strong teeth in front; temple white, brown-spotted; scales of the back in 4 series.

*a, b.* In spirits. Back pale, with a white-edged central streak. W. Australia. From Mr. Buchanan's collection.

*c, d.* Back with several white-edged streaks. W. Australia. From Mr. Gould's collection.

*e, f.* Houtman's Abrolhos. From Mr. Gould's collection.

*g.* In spirits. Back brown, without a streak. Port Essington. From Mr. Gilbert's collection.

Gilbert's Hinulia. Hinulia Essingtonii, *Gray, Zool. Erebus and Terror, Rept. t.* Tiliqua Essingtonii, *Gray, Zool. Misc.* 51.

Pale brown, nape with 3 indistinct black streaks, with a very distinct narrow broadly black-edged silvery streak from the back angle of the eye to over the base of the tail, and with a broader more indistinct streak from the front to the hinder legs; sides of throat brown, white-spotted; chin, under side of limbs and beneath yellow; tail elongate, brown, with 2 narrow black streaks on each side; limbs brown, with 3 indistinct black dotted lines; ears large, with 3 small scales on the front edge.

*a.* Young? in spirits. Port Essington, North coast of Australia. From Mr. Gilbert's collection.

Like the preceding, but it has no white-edged central streak, and the lateral streak has indications of a white border to its upper edge.

The Bronzed Hinulia. Hinulia inornata, *Gray, Zool. Erebus and Terror, Rept. t.*

Pale nearly uniform brown bronze above, back with a rather narrow bright yellow rather darker edged streak on each side; the sides pale, with an indistinct yellow streak on the lower part of each; both streaks extending along the side of the tail; chin and beneath whitish, with rather darker edges to the sides; ears oblong, with 4 or 5 small compressed yellow scales in front.

*a.* In spirits. Swan River.

The Lineated Hinulia. Hinulia tæniolata. Lacerta tæniolata, *Shaw. White, Jour. N. H. t.* 32, *f.* 1. *Gray, Griffith, A. K.* ix. 68. *Ann. N. H.* ii. 289. *Dum. et Bib. E. G.* v. 734. Scincus undecim-striatus, *Kuhl, Beytr.* 129. S. octolineatus, *Daud. Rept.* iv. 285. S. multilineatus, *Lesson, Voy. Coq. t.* 3, *f.* 2. Keneux de Lesueur, *Coct. Tab.*

Brown or black, with 6 white streaks, continued and margining the shields of the head; sides brown, with 2 white streaks; tail pale, with 3 tapering streaks; nasals contiguous; scales of the back in 4 series; ears denticulated in front; frontonasal plates contiguous.

*a.* In spirits, rather bleached. Australia. Presented by Capt. J. White. The specimen described by Dr. Shaw.
*b, c.* In spirits. Australia.
*d, e.* In spirits. N. Holland.
*f.* In spirits. Australia. Presented by the Earl of Derby.

†† *Dorsal scales small, in* 8 *series. Head large.*

White's Hinulia. Hinulia Whitei, *Gray, Zool. Erebus and Terror, Rept. t.* Scincus Whitei, *Lacep. Ann. Mus.* iv. 192. S. ocellatus, and S. Lewecinensis, *Peron, Mus. Paris.* S. tæniolatus quadrilineatus, *Merrem, Tent.* 72. S. moniliger, *Valenc. Mus. Par.* Lygosoma moniligera, *Dum. et Bib. E. G.* v. 736. Keneux de White, *Coct. Tab.* Tiliqua leucopsis, *Gray, Ann. N. H.* ii. 291.

Pale olive, back with a central pale streak and a regular white spotted black streak on each side; sides white-spotted; eyelid and ear-lobes white; lips black-varied; scales of the back as long as broad, in 8 series; nasal plates contiguous; ears strongly denticulated in front; frontonasal plates contiguous.

*a.* In spirits. Kanguroo Island. From the Paris Museum.
*b.* In spirits. Swan River. From Mr. Buchanan's collection.
*c.* In spirits. Swan River.
*d—k.* In spirits, young and old. Australia. Presented by the Lords of the Admiralty, from the Antarctic Expedition.
*l, m.* In spirits. Australia. Presented by Lieut. A. Smith, R.N.
*n, o.* H. Abrolhos, Australia. From Mr. Gould's collection.
*p, q.* Young. Australia. Presented by the Earl of Derby.
*r.* Half grown. Dorsal streaks each with 2 rows of linear white specks. Swan River.
*s.* Adult, stuffed. Back with a central reddish streak. Australia. Presented by W. Shuckard, Esq.

3. Keneuxia. Le Keneux, part, *Cocteau.* Lygosoma, part, *Dum. et Bib.*

Head depressed in front. Nostrils lateral, in a small oblong longitudinal nasal. Rostral low notched above. Internasal large, subtrigonal. Loreal shields 2, oblong. Frontoparietal separate, interparietal small. Labial plate low, elongate. Mental shields large, with a small triangular central one behind. Ear small, simple in front. Body fusiform. Scales smooth. Tail round, tapering, with a series of broad plates beneath. Legs 4, strong. Toes 5-5, compressed, elongate, unequal. Soles granular. Heel of the hind feet with a flat oval plate behind. Preanal shields rather larger in a curved series: the scales behind the vent small, numerous.

The Keneux. Keneuxia smaragdina. Scincus smaragdinus, *Lesson, Voy. Coq.* iii. *t.* 3, *f.* 1. *Schlegel, Abb. Amph.* 33, *t.* 11. *Dum. et Bib. E. G.* v. 738. S. viridipunctatus, *Lesson, Voy. Coq.* 44, *t.* 4, *f.* 1. S. celestinus, *Valenc. Mus. Par. Guérin, Icon. R. A. t.* 15, *f.* 2. S. oxycephalus, and S. Tressianus, *Reinw. Mus. Leyd.* Keneux de Valenciennes, *Coct. Tab.*

Olive, black-spotted, with a pale streak on each side, (it and the spot becoming obliterated with age), beneath silvery; internasal as long as broad, subtrigonal; frontonasal contiguous.

*a*. Adult, in spirits. Uniform pale greenish. Molucca. From the Leyden Museum.

*b*, *c*. Younger, in spirits. Olive, black-spotted, with a pale streak on each side of back. Molucca. From the Leyden Museum.

*d*. Adult, in spirits. Green, black-spotted. Philippines. From Mr. Cuming's collection.

4. Elania. Lygosoma, part, *Dum. et Bib.*

Head small, slender, conical. Rostral plate bent back on the muzzle. Frontal plate very large, rhombic, broader than long, soldered in front to the internasal. Nasal large, nearly contiguous, supranasal none, frontonasal separate, lateral. Eyebrow with 5 plates. Frontoparietal 2. Ears very small. Body fusiform, large in the middle. Scales moderate, smooth. Limbs strong. Tail very long and gradually tapering. The 2 middle preanal shields largest.

The Elania. Elania Mulleri. Scincus Mulleri, *Schlegel, Abh. Amph.* 13, *t.* 3. *Dum. et Bib. E. G.* v. 740.

Reddish, with cross series of black spots; end of the muzzle, chin and lips black, beneath yellow; sides with a yellow-edged brown streak; limbs black, with a longitudinal yellow streak; a spot under the eyes and streak on side of neck black.

Inhab. New Guinea. Mus. Leyden.

b. *Supranasal plate none. Body fusiform. Lower eyelid with a transparent disk.*

5. Mocoa. Lygosoma, part, *Dum. et Bib.*

Head subquadrangular. Rostral erect, triangular, convex. Nasal lateral, nearly contiguous, supranasal none, frontoparietal separate or united into one. Palate toothless, nicked behind. Ears oblong, slightly denticulated in front, tympanum deep. Lower eyelid with a central transparent disk. Chin with several pairs of large shields. Body fusiform. Scales smooth, with 3 or 4 black streaks. Limbs 4, strong. Toes 5-5, compressed, unequal. Tail round, tapering, unarmed. Central preanal scales rather larger than the others.

* *Frontoparietal plate single, lozenge-shaped.*

† *Scales of the back moderate, in 6 series.*

Guichenot's Moco. Mocoa Guichenoti, *Gray, Zool. Erebus and Terror, Rept. t.* Lygosoma Guichenoti, *Dum. et Bib. E. G.* v. 713. *Gray, in Grey, Austr.* ii. 425.

Bronze green, with blackish streak on each side; scales of the back moderate; frontoparietal plate single, larger, elongate, lo-

zenge-shaped, frontal triangular, equal-sided; nasal plate small, quite lateral, internasal broad, truncated in front; ear large, nearly circular, open, simple-edged in front; 2 of the 4 scales of the last preanal series larger than the rest.

*a*. In spirits. N. Holland, King George's Sound. From the Paris Museum.

"Scincus Duperreyi," *Bibron*.

*b*. In spirits. Australia. Presented by the Earl of Derby.

The New Holland Moco. Mocoa trilineata, *Gray, Zool. Erebus and Terror, Rept. t.* Tiliqua trilineata, *Gray, Ann. N. H.* ii. 291. Lygosoma Duperreyii, *Dum. et Bib. E. G.* v. 715.

Olive, black-spotted, with a pale streak on each side, sides blackish, white-dotted; ears moderate, oval, front edge covered with 2 scales; nasal lateral, nearly contiguous, frontoparietal plate single, lozenge-shaped, frontal rhombic, short and blunt before, long and acute behind.

*a*. In spirits. Olive, scales of the back and sides black-edged, not spotted. W. Australia. From Mr. Buchanan's collection.

*b—d*. Like *a*. W. Australia. From Mr. Gould's collection.

*e—g*. In spirits. Like *a*. Swan River.

*h*. In spirits. Olive, black and white spotted, sides blackish, white-dotted. W. Australia. From Mr. Gould's collection.

*i—l*. In spirits. Like *h*. Swan River.

*m*. In spirits. Australia. Presented by the Earl of Derby.

†† *Scales of the back small, in* 8 *or* 10 *series.*

Cuming's Moco. Mocoa Cumingii.

Olive-green, with scattered black and white spots, sides black-varied, beneath silvery green; nasal lateral, nearly contiguous, internasal lozenge-shaped, nearly as long as broad, frontonasal large, contiguous, frontal moderate, interparietal single, lozenge-shaped, slightly nicked behind, parietal small, superciliary shields 4-4; scales of back rather small, of the sides small; lower eyelid disk moderate.

*a*. In spirits. Philippine Islands. From Mr. Cuming's collection.

The Black-chinned Moco. Mocoa melanopogon, *Gray, Zool. Erebus and Terror, Rept. t.*

Olive, varied with black, and with 2 or 3 white streaks on some of the scales; side of the head and neck black, with a white streak under the eyes from the back edge of the ear; chin and throat black, with a central white spot on each scale, beneath silvery; nasal lateral, frontonasal contiguous; scales of the back rather small, in 8 or 10 series, of the sides smaller; disk of lower eyelid very large.

*a*. In spirits. Port Essington. From Mr. Gilbert's collection.

††† *Scales of the back very small, in numerous series.*

The Eyed Moco. Mocoa ocellata, *Gray, Zool. Erebus and Terror, Rept. t.*

Olive, varied with numerous sometimes confluent black dots, forming rings on the sides, beneath whitish; scales very small, in many series; nasal rhombic lateral; disk of lower eyelid large.

*a—c.* In spirits. Australia. From Mr. Gould's collection.
*d, e.* In spirits. Australia. Presented by the Earl of Derby.

** *Interparietal plates 2, separate.*

† *Ear ovate, partly covered with the scales above.* Australia.

Entrecasteaux's Moco. Mocoa Entrecasteauxii, *Gray, Zool. Erebus and Terror, Rept. t.* Lygosoma Entrecasteauxii, *Dum. et Bib. E. G.* v. 717?

Olive, back with a broad blackish central streak, sometimes with series of spots on the side, sides blackish, with 2 narrow white streaks; nasal plates small, nearly continuous; temple covered with large scales; transparent disk of the lower eyelid very large; ears moderately open, nearly circular, simple-edged; preanal scales nearly equal; frontoparietal plate double, frontonasal nearly contiguous.

*a—f.* In spirits. Australia. From Mr. Gould's collection.
*d—i.* In spirits. Australia. Presented by the Lords of the Admiralty, from the Antarctic Expedition.
*j, k.* In spirits. Australia. Presented by the Earl of Derby.

The Moko Moko. Mocoa Zelandica, *Gray, Zool. Erebus and Terror, Rept. t.* Tiliqua Zelandica, *Gray, Dieff. N. Z.* ii. 202. Tiliqua Moko, "*Gray, MSS.*" *Dum. et Bib. E. G.* v. 718.

Pale brown, bronzed, with 2 narrow black-edged bright streaks on each side, the lower one continued down the front of the legs; sides blackish; the frontonasal nearly contiguous, the fronto-parietal separate, similar to the parietal, nasal nearly contiguous; ears moderate, nearly circular, simple-edged; preanal scales nearly equal; palpebral disk moderate.

*a.* In spirits. Cook's Straits, N. Zealand. Presented by R. Owen, Esq.
*b.* In spirits. New Zealand, Bay of Islands. Presented by the Admiralty, from the Antarctic Expedition.

Smith's Moco. Mocoa Smithii, *Gray, Zool. Erebus and Terror, Rept. t.*

Pale brown, with 3 indistinct series of black spots and a pale streak on each side; sides black-varied, beneath whitish; limbs black-spotted; nasal and frontonasal nearly contiguous, fronto-

parietal and parietal nearly equal; ears open, simple-edged; preanal plates nearly equal, larger; disk of the lower eyelid very large, oblong.

*a—c.* In spirits. New Zealand. Presented by Lieut. Alexander Smith, R.N.

*d—h.* In spirits. N. Zealand. Presented by the Admiralty, from the Antarctic Expedition.

The Small-eared Moco. Mocoa microtis, *Gray, Zool. Erebus and Terror, Rept. t.*

Olive, with a narrow dark streak on each side of the back; sides black, with a subcentral broad pale streak; nasal contiguous, internasal triangular, outer angle truncated, frontonasal small, far apart, frontal 5-sided; ears small, partly covered with the scales above; lower eyelid disk large, oblong; 2 central preanal plates largest.

*a.* In spirits. Swan River, W. Australia. From Mr. Gilbert's collection.

The Bronzed Moco. Mocoa cuprea. Ablepharus cupreus, *Gray, Ann. N. H.* ii. 335. A. Peronii, part, *Dum. et Bib. E. G.* 814.

Golden green, mottled with brown (perhaps discoloured), with a narrow pale sinuous streak on each side of the back; nasal nearly contiguous, frontonasal small, contiguous, frontal elongate lozenge-shaped; ears oblong, moderate; head depressed; lower eyelid disk large, oblong; 2 central preanal plates larger.

*a.* In spirits. ——— ? ——— ?

†† *Ears round, moderate, simple-edged, drum sunken.* African.

The African Moco. Mocoa Africana.

Brown, darker spotted (perhaps discoloured ?); lip and throat brown-spotted, beneath silvery; scales rather larger, nearly as long as broad; nasal oblong, lateral, separated by the 4-sided internasal, frontonasal nearly contiguous, frontal elongate, rhombic, rather truncated in front; tail short, tapering, with a central series of broad shields beneath.

*a.* Young, in spirits. W. Africa.

††† *Ear circular, large, entirely exposed.* American.

The North American Moco. Mocoa lateralis. Scincus lateralis, *Say, Long's Exped. R. N.* ii. 324. *Holb. N. A. Herp.* i. *t.* 8. *Gray, Griffith, A. K.* ix. 70. *Dum. et Bib. E. G.* v. 719. S. unicolor, *Harlan, J. Acad. N. S. Phil.* v. 156.

Olive, black-dotted, with a white-edged dark streak on each side; nasal nearly contiguous; ears very large, circular, the edge

simple, rounded; frontal very long, narrow in front; 2 middle preanal scales largest; frontoparietal plate double; palpebral disk moderate.

*a—e.* In spirits. N. America. Presented by E. Doubleday, Esq.

6. LEIOLOPISMA, *Dum. et Bib,* Rachites, part, *Coct.*

Head short, quadrangular. Rostral erect, triangular. Nostrils lateral. Nasal subtrigonal, nearly contiguous, supranasal none, frontoparietal plate separate, interparietal large square. Palate with a slight nick behind, armed with teeth. Lower eyelid with a transparent disk. Ear oblong, simple-edged, tympanum sunk deep. Chin with a large mental shield in front, with a pair of rather larger behind, and with two series of small scales below the lower labials. Body fusiform. Tail round tapering. Scales smooth, in many series. Preanal scales moderate, rather larger, the middle rather the largest. Limbs 4, strong. Toes 5-5, compressed, unequal. Soles granular. Claws short, compressed.

The LEIOLOPISMA. Leiolopisma Bellii. Tiliqua Bellii, *Gray, Griffith, A. K.* ix. 70. *Ann. N. H.* 292. Rachite de Telfair, *Coct. Tab.* Scincus Telfairii, *Desjardin, Ann. Sci. Nat.* xxii. 292, 1831. *Dum. et Bib. E. G.* v. 742.

Pale brown, with irregular cross bands of brown-margined pale scales; sides brown-spotted.

*a.* Adult, in spirits. Madagascar. Presented by J. E. Gray, Esq.
*b.* Half-grown, in spirits. Madagascar. Olive, brown-varied. Presented by Dr. Johnson.

7. LIPINIA.

Head rather depressed. Muzzle depressed. Rostral rather depressed, large, truncated behind, rounded in front. Supranasal none, interparietal 2. Nostrils lateral, rather in front of the middle of an elongate 4-sided nasal. Tongue depressed, nicked. Eyes moderate, pupil round. Eyelids short, edged with granules, the lower with a transparent disk. Ears round, large, tympanum rather sunk. Body fusiform. Scales smooth. Legs 4, moderate, slender. Toes 5-5, slender, simple, unequal, clawed. Tail elongate, tapering.

The LIPINIA. Lipinia pulchella.

Brown, whitish beneath, with a broad central white (yellow) streak from the tip of the nose to the middle of the tail, edged on each side by a broad dark brown streak; legs brown-spotted.

*a.* In spirits. Philippine Islands. From Mr. Cuming's collection.

**** Supernasal plates none. Body and tail elongate, subcylindrical. Limbs 4, weak, far apart. Rostral erect, triangular.*

† *Toes elongate, rather compressed, unequal.*

8. Lygosoma, *Gray.* Lygosoma, part, *Dum. et Bib.*

Head subquadrangular. Nasal lateral, nearly contiguous, supranasal none. Rostral rounded, triangular, erect, frontoparietal double (or single). Palate toothless, nicked behind. Ears oblong, tympanum sunk. Lower eyelid scaly, with a transverse series of larger scales. Chin with several pair of large shields. Body and tail elongate, subcylindrical. Scales smooth. Limbs 4, weak, far apart. Toes 5-5, compressed, unequal.

The Swan River Lygosoma. Lygosoma australis, *Gray, Ann. N. H.* ii. 332. *Zool. Erebus and Terror, Rept. t.*

Back golden brown, darker varied, with a broad pale golden green streak down each side; sides grey, closely black-dotted; nasal lateral, triangular, nearly contiguous, frontonasal contiguous, frontoparietal 2; ears simple, round.

*a.* Adult, in spirits Back dark brown, with 3 series of black oblong longitudinal spots, beneath white. Swan River. From Mr. Dring's collection.

*b.* Half-grown, in spirits. Back pale brown, scarcely spotted, beneath white, with black edges to the scales. Swan River. From Mr. Dring's collection.

Temminck's Lygosoma. Lygosoma (?) Temminckii, *Dum. et Bib. E. G.* v. 727. Scincus Cuvierii, *Mus. Leyd.*

Dull chesnut, with a narrow black streak on each side, beneath white; chin and throat closely black spotted; limbs short, weak; toes rather short, stout, subcylindrical; tail conical; supraocular shields 4; ears large, circular, open, simple-edged; nasal lateral, internasal lozenge-shaped, strongly truncated in front, frontonasal nearly contiguous.

Inhab. ——— ? Mus. Paris from Mus. Leyden, (1 specimen).

Bougainville's Lygosoma. Lygosoma Bougainvillii, *Dum. et Bib. E. G.* v. 716. *Gray, Ann. N. H.* ii. 332. Scincus Bougainvillii, *Cocteau, MSS.*

Ears very small, simple, partly covered by the ends of the temple-scales above; preanal scales 2, very large; nasal plates large, contiguous, internasal very large.

Inhab. New Holland. Mus. Paris, (1 specimen).

9. Ristella, *Gray.*

Muzzle conical. Supranasal ——— ? Ears distinct, suborbicular, sunken. Lower eyelid ——— ? Body and tail elon-

gate, subcylindrical, the latter tapering at the end. Legs 4, weak, far apart. Toes 4-5, compressed, front very short, hinder unequal.

Rurk's Ristella. Ristella Rurkii, *Gray*, *Ann. N. H.* ii. 333. Crown and back pale brown, shining; scales 6-rowed, each of those in the 4 central rows with a black central spot, forming 4 longitudinal series of spots; sides ashy, white-dotted; chin and belly white; tail similar, but rather paler, nearly as long as the body.

Inhab. N. India, Dr. Rurk. Mus. Fort Pitt, Chatham.

10. Tetradactylus, *Peron*. Seps, *Fitz.*, *Weigm.*

Head subquadrangular. Nasal plates lateral, nearly contiguous, supranasals none, frontoparietal ———? Tongue flat, scaly, nicked at the tip. Teeth conical, simple. Palate toothless, slightly notched behind. Ears distinct, partly covered by the scales in front of it. Occipital plates none. Lower eyelid with a transparent disk. Body elongate, cylindrical, sides rounded. Scales smooth. Legs 4, far apart, weak. Toes 4-4, subcylindrical, simple, unequal, clawed, the first to the third gradually longer, fourth short, low down. Tail elongate, conical, pointed, with a central series of rather broader scales beneath. The 2 central preanal scales largest.

This genus differs from *Chiamela* in having no supranasal, and in having a distinct external thumb-like toe to the hind foot.

The Tetradactylus. Tetradactylus Decresiensis, *Peron*, *Mus. Paris. Cuv. R. A.* ii. 64. *Gray*, *Ann. N. H.* ii. 333. *Zool. Erebus and Terror*, *Rept. t.* *Dum. et Bib. E. G.* v. 764. *Dict. Sci. Nat. Add. t. f.* 3. Seps Peronii, *Fitz.* 52. Chiamela Duvaucellii, *Gray*, *Ann. N. H.* ii. 333.

Dark brown, with series of black spots, the central series the broadest; scales of the under side pale edged.

*a*. Adult, in spirits. Kanguroo Island. From the Paris Museum.

11. Hemiergis, *Wagler*. Tridactylus, *Peron*, not *Lacep.* Zygnis, part, *Fitzinger*. Seps, part, *Cuvier*.

Head conical. Nasals lateral, large, rhombic, nearly contiguous, supranasals none, 2 frontoparietals and interparietal similar in size. Lower eyelid with a transparent disk. Tongue scaly, nicked. Teeth simple, conical. Palate toothless, slightly notched behind. Ears exposed. Body elongate, cylindrical, sides rounded. Scales smooth. Limbs 4, far apart, weak. Toes 3-3, simple, subcylindrical, clawed, the middle one rather longest, the inner shortest. Tail conical, pointed, with a central series of very broad scales beneath. The 2 central preanal scales rather larger.

The TRIDACTYLE. Hemiergis Decresiensis, *Wagler, Sys.* 160. *Dum. et Bib. E. G.* v. 766. *Gray, Zool. Erebus and Terror, Rept. t.* Tridactylus Decresiensis, *Peron, Mus. Par. Cuv. R. A.* ii. 64. *Gray, Ann. N. H.* ii. 333. *Fitz. Class.* 53.

Back olive, with 2 lines of small indistinct black spots and a broad black streak on each side, extending to the tip of the tail, beneath yellowish.

*a.* In spirits. Swan River.

### 12. CHELOMELES, *Dum. et Bib.*

Muzzle conical. Nostrils lateral, in the middle of a nasal shield. Supranasal none, 2 frontoparietal and interparietal similar in size. Tongue flat, scaly, nicked at the end. Palate not toothed, notched behind, without any central groove. Teeth conical, simple. Ears very small, hidden under the scales. Lower eyelid with a transparent disk. Body cylindrical, elongate. Scales smooth, of the under side larger. Legs 4, far apart. Toes 2-2, subcylindrical, simple, unequal, clawed. Tail elongate, conical, acute.

The FOUR-LINED CHELOMELE. Chelomeles quadrilineatus, *Dum. et Bib. E. G.* v. 774. *Gray, in Grey, Austr.* ii. 428. *Zool. Erebus and Terror, Rept. t.*

Fulvous, with 4 longitudinal black lines, 2 in the middle and 1 on each side of the back; beneath whitish, scales grey-edged.

*a.* In spirits. W. Australia, Houtman's Abrolhos. From Mr. Gilbert's collection.

### †† *Toes short, thick, cylindrical.*

### 13. OMOLEPIDA. Cyclodus, part, *Dum. et Bib.*

Head 4-sided, rounded in front. Nasal ovate, oblique, subanterior, nearly contiguous, with the round nostril in the centre, without any curved groove behind. Supranasal none. Rostral triangular, erect. Frontonasal and frontoparietal separate, moderate, contiguous, frontal and interparietal distinct, parietal elongated. Orbit with a series of small shields beneath. Temple shielded. Ear oblong, simple-edged, deep. Lower eyelid with a series of larger scales. Body and tail subcylindrical, elongate. Scales 6-sided, smooth, of the under side thinner. Limbs 4, short, moderate. Toes 5-5, cylindrical, rather short, subequal. Tail elongate, with 3 series of rather larger broad scales beneath.

M. Bibron arranged this genus with *Cyclodus*, but it differs from it in the nasal shield being quite flat, without any groove behind the nostrils, and the scales smooth and thin.

The Omolepide. Omolepida Casuarinæ. Cyclodus Casuarinæ, *Dum. et Bib. E. G.* v. 749. *Gray, in Grey Trav. Austr.* ii. 423. *Bell, Zool. Beagle, Rept. t.* 15, *f.* 3. Keneux de la Casuarine, *Coct. Tab.*

Olive green, varied with black interrupted cross bands formed of the back edges of the scales, beneath grey white, with black edges to the scales.

*a.* In spirits. V. D. Land. Presented by Charles Darwin, Esq.
*b, c.* In spirits. V. D. Land. Presented by the Admiralty, from the Antarctic Expedition.
*d, e.* In spirits. V. D. Land. From Mr. Gould's collection.

14. Podophis, *Weigm.* Lygosoma, part, *Gray, Dum. et Bib.* Chalcida, *Meyen.* Mabouya, part, *Fitz.*

Head subquadrangular. Nasal lateral, triangular, nearly approximating, supranasal none, frontoparietal single, interparietal triangular, parietals 2, oblique, large. Ears very small, nearly hidden under the skin. Lower eyelid scaly, with a cross series of larger scales. Body and tail elongate, subcylindrical. Scales smooth, of the under side rather larger. Limbs 4, very far apart, weak, short. Toes 5-5, short, thick, subequal, cylindrical, clawed. Tail cylindrical. Scales of the under side similar to those of the belly.

The Podophis. Podophis Chalcides. Lacerta Chalcides, *Linn. S. N.* i. 369. Anguis quadrupes, *Linn. S. N.* i. 390. *Lacep. Q. O.* i. 437. Lacerta serpens, *Bloch, Naturf.* ii. 28, *t.* 2. *Meyer, Syn. Rept.* 31. *Gray, Zool. Journ.* iii. 228. Lygosoma aurata, *Gray, Griffith, A. K.* ix. 72. L. brachypoda, *Dum. et Bib. E. G.* v. 721. Scincus brachypus, *Schn. Amph.* ii. 192. Seps pentadactylus, *Daud. Rept.* iv. 325. Lacerta abdominalis, *Thunb. Gray, Ann. N. H.* ii. 332. Tiliqua deVosmaer, *Coct. Tab.*

Frontal plate oblong, frontoparietal plate single; last range of preanal scales largest.

*a.* Adult, in spirits. Java. From the Leyden Museum.

d. *Supranasal plates none. Body and tail cylindrical, elongate. Limbs rudimentary or wanting. Rostral rather produced and depressed in front. Frontonasal rudimentary, the internasal and frontal being separated by a broad straight suture. Head half conical.*

15. Siaphos, *Gray.* Peromeles, *Weigm.* Tetradactylus, *Dum. et Bib.*

Head rather depressed, half conical. Supranasal none. Rostral rather produced but rounded in front. Nasal triangular, oblique, lateral, internasal truncated behind, frontonasal none, fron-

tal large, truncated in front, 2 frontoparietal and interparietal similar in size. Body elongate, subcylindrical. Scales smooth. Legs 4, far apart, weak, short. Toes 3-3, very small, unequal, middle longest, the hinder outer smallest. Tail elongate, subcylindrical, tapering, with a central series of broader scales beneath. The 2 central preanal scales larger.

The Siaphos. Siaphos equalis, *Gray*, *Griffith*, *A. K.* ix. 72, *Ann. N. H.* iii. 334. *Zool. Erebus and Terror, Rept. t. Weigm. H. M.* ii. Seps equalis, *Gray*, *Ann. Phil.* x. 1825, 202. Anguis lacertina, *E. W. Gray*, *B. Mus.* 1804. Hemiergis Decresiensis, part, *Dum. et Bib. E. G.* v. 767.

Pale olive; sides of body and tail black, beneath white.

*a*. In spirits, bleached. New Holland?
*b*. In spirits. Australia. Presented by the Earl of Derby.

16. Rhodona, *Gray*. Ronia, *Gray*. Brachystopus, *Dum. et Bib.*

Muzzle rather wedgeshaped. Rostral rather depressed, rounded in front. Frontoparietal plates 2. Nostril on the ridge in the middle of a large triangular nasal plate, which converge together in front. Supranasal none. Tongue flat, covered with granular papillæ, nicked at the tip. Teeth blunt. Palate toothless, with a short posterior groove. Ears very small. Eyes small. Lower eyelid transparent. Body cylindrical, rather elongate. Scales smooth. Legs 4, far apart, the front pair simple, undivided, tapering, the hind pair divided into 2 unequal subcylindrical simple clawed toes. Tail conical, pointed, with 3 or 5 series of larger scales beneath.

The Dotted Rhodona. Rhodona punctata, *Gray*, *Ann. N. H.* ii. 335. Brachystopus lineapunctulatus, "*A. Smith*, *MSS.*" *Mus. Chat. Dum. et Bib. E. G.* v. 779. Ronia catenulata, *Gray in Grey Trav. Aust.* ii. 426, 437, *t.* 4, *f.* 1.

Greyish silvery, with 6 or 8 series of small black specks, one in the centre of each scale, beneath white.

*a*, *b*. Adult, in spirits. W. Australia. From Mr. Buchanan's collection.
*c*—*f*. Adult, in spirits. W. Australia. From Mr. Gilbert's collection.

17. Soridia, *Gray*. Præpeditus, *Dum. et Bib.*

Head wedge-shaped. Muzzle half conic. Rostral convex above, sharply keeled in front. Frontoparietals and interparietal united into a single triangular plate, internasal and frontal broad, separated by a broad straight suture. Nostrils lateral, in the middle of a triangular oblique nasal, supranasal none. Tongue scaly. Ears hidden under the skin. Body cylindrical. Scales smooth.

Legs 2, posterior, simple, undivided. Tail cylindrical, with scales like the belly below. Preanal shields 2, large. Australia, (not S. Africa, as supposed by *M. Bibron*).

The LINEATED SORIDIA. Soridia lineata, *Gray, Ann. N. H.* ii. 336. *Grey, Trav. in Austr.* ii. 428, *t.* 3, *f.* 2. Præpeditus lineatus, *Dum. et Bib. E. G.* v. 788.

Silvery grey, with 2 very narrow black longitudinal lines, and a broad black streak on each side, beneath white, black-spotted.

*a—f.* Adult, in spirits. W. Australia. From Mr. Buchanan's collection.

*g—i.* Adult, in spirits. W. Australia. From Mr. Gilbert's collection.

*j.* Adult, in spirits. Tail double. W. Australia. From Mr. Gilbert's collection.

e. *Supranasal plates* 2. *Body fusiform. Tail tapering.*

18. PLESTIODON, *Dum. et Bib.* Euprepis, part, *Cocteau.*

Head subquadrangular. Supranasal 1 pair, transverse, contiguous. Nostril in the middle of an oblong scale, often divided by a suture above and below the nostril, as if in the middle between two scales. Frontoparietal 2, contiguous. Palate with a central slit, widened at its front end and toothed behind. Lower eyelid scaly, with a cross series of larger scales. Body fusiform. Scales smooth, large, transverse. Toes 5-5, compressed, keeled, slightly serrated beneath, sometimes with 2 or 3 rounded tubercles at the base. Palms and soles unequally warty. Tail rather compressed, tapering. The 2 central preanal scales larger.

In some of the species the nasal appears to be formed of two plates soldered together, with the nostril in the suture. Sometimes the front portion is much the largest, triangular, as in *P. auratus*, and may be mistaken for a second supranasal plate.

* *A small scale between the nasal and loreal.* Plestiodon.

† *Ear tubercled in front. Nostril posterior, with a small triangular space in front of it.*

The BROAD-HEAD PLESTIODON. Plestiodon laticeps, *Dum. et Bib. E. G.* v. 705. Scincus laticeps, *Schn. Amph.* 189. *Daud. Rept.* iv. 301. S. erythrocephalus, *Gilliams, Journ. Acad. N. S. P. t.* 18, *f.* 2. *Holb. N. Am. Herp.* ii. *t.* 22. *Gray, Ann. N. H.* ii. 292. S. Americanus, *Harlan, Med. and Phys. Reg.* 138. Euprepis de Petiver, *Coct. Tab.* The Scorpion, *Lawson, Carolina.*

Back fulvous, head reddish; ears large, oblong, with a series of oblong oblique tubercles in front; temples smooth, swollen, covered with large shields; toes short, edged beneath with 3 or 4 rounded tubercles at the base; 2 central preanal shields longer; nasoloreal plate distinct square.

*a*. Adult, in spirits. North America. Presented by E. Doubleday, Esq.
*b*. Adult, in spirits. Head bruised. N. America. Presented by Dr. R. Harlan.
*c*. Adult in spirits. Head bruised. W. Indies.
Tiliqua similis, *Gray*, *Ann. N. H.* ii. 292.
*d*. Half-grown ? in spirits. Back with 4 dark streaks. N. America.
Scincus tristatus, *Daud. Rept.* iv. 296. — *Bosc. N. Hist. H. N.* xvii. 524, *t.* 15, *f.* 2. Plestiodon quinquelineatum, var. A. *Dum. et Bib. E. G.* v. 707. Euprepes de Bosc, *Coct. Tab.* Scincus trilineatus, *Schneid. Amph.* ii. 202?? Scincus bicolor, *Harlan*, *J. Acad. N. S. Phil.* iv. 286, *t.* 18, *f.* 1. Tiliqua Sloanii, *Gray*, *Ann. N. H.* ii. Scincus quinquelineatus, *Holbrook*, *N. Amer. Herpet.* iii. 39, *t.* 6.

†† *Ear denticulated in front. Nasal shield oblong.*

The Blue-tail. Plestiodon quinquelineatum. Lacerta quinquelineata, *Linn. S. N.* i. 366. *Daud. Rept.* iv. 272, *t.* 55, *f.* 1. Lac. fasciata, *Linn. S. N.* i. 369. *Holbrook*, *N. Amer. Herpet.* iii. 43, *t.* 7. Euprepis de Catesby, *Coct. Tab.* E. Lynxe, *Weigm. H. Mex.* i. 36. Le Queue Bleue, *Lacep. Q. O.* i. 360. *Catesby*, *Carol.* ii. 67. *Petiver*, *Mus. t.* 1, *f.* 1. *Fauna Japon.* 49, *t.* 1, *f.* 1—4. P. quinquelineatum, var. *β*. *Dum. et Bib. E. G.* v. 707.
Black or brown, with 5 white streaks, the middle one forked in front; ears with several small lobules in front; nasoloreal plate distinct, square.
*a*—*d*. In spirits. N. America. Presented by E. Doubleday, Esq.
*e*. In spirits. N. America. Presented by Thomas Bell, Esq.
*f*, *g*. Young, in spirits. N. America. From Mr. Drummond's collection.
*h*. In spirits. N. Holland.
*i*—*o*. In spirits. Japan. From the Leyden Museum.

* *No small shield between the nasal and loreal shields.*

† *Ear strongly toothed in front. Nasal shield broad in front. Nostril central, with a triangular space rather above it, (an upper nasal?)* Cyprius.

The Cyprius. Plestiodon auratus. Lacerta Cyprius, *Aldrov. Quad.* i. 660. Scincus Cyprius, *Cuv. R. A.* ii. 62. S. auratus, *Schn. Amph.* ii. 176. S. Schneiderii, *Daud. Rept.* iv. 291. *Geoff. Rept. Egypt. t.* 3, *f.* 3. S. Cepedii, *Merr. Tent.* 74. Le Dora, *Lacep. Q. O.* i. 384, *t.* 25. Anolis gigantesque, *Geoff. Rept. Egypt*, *t.* 3, *f.* 3. Euprepis de Geoffroy, *Coct. Tab.* Plestiodon Aldrovandii, *Dum. et Bib. E. G.* v. 701.

Brown or fulvous, red spotted; ears vertical, ovate, with several large lobules in front; phrenonasal plates wanting, the front upper labial short, obliquely truncated above (for the nasal); toes with convex cross plates beneath.

*a.* Young, in spirits, bleached. North Africa?

†† *Ears simple. Nostrils in the middle of an oblong longitudinal shield.* Euprepis.

The Chinese Plestiodon. Plestiodon pulchrum, *Dum. et Bib. E. G.* v. 710. Tiliqua pulchra, *Gray, Brit. Mus.* (not *Illust. Ind. Zool.*) Tiliqua de Gray, *Coct. Tab.*

Black, back with 7 alternately broad and narrow white streaks, sides white-spotted, beneath white; ears simple; temples flat, shielded, 2 frontoparietal and the interparietal nearly of the same size.

*a.* In spirits. China. Presented by J. Reeves, Esq.

Bell's Plestiodon. Plestiodon Bellii.

Blackish, with 3 broad dark-edged white streaks, most distinct in the fore part of the back, the central one simple in front; sides with a broad black streak in front; no small naso-loreal shield; ears simple in front; nasal plate oblong, 4-sided.

*a.* In spirits, wants the tail. ——— ? Presented by Thomas Bell, Esq.

The Chinese Plestiodon. Plestiodon Chinensis. Tiliqua Chinensis, *Gray, Ann. N. H.* ii. 289. P. Sinense, *Dum. et Bib. E. G.* v. 704. Euprepis d' Hardwick, *Coct. Tab. Hardw. Icon. ined. B. M. t.* Tiliqua rufoguttata, *Cantor, Ann. N. H.* 1842, (spec. Mus. Ind. Comp.)

Greenish, sides and tail varied and spotted with brown; ears vertical, ovate, with some very small lobes in front; nasoloreal plates none, nasal shield oblong 4-sided.

*a.* In spirits. China. Presented by J. Reeves, Esq.

19. Eumeces. Eumeces, part, *Weigmann, Dum. et Bib.*

Head short, subquadrangular. Muzzle conical, rounded. Frontoparietal 2, approximate. Nostrils lateral. Nasal oblong, with nostrils in the middle of its upper edge, supernasals 2, subcontiguous. Lower eyelid scaly, with a cross band of larger scales. Palate with a very slight triangular notch behind, not toothed. Ears large, circular, with 2 or 3 small lobes in front. Body rather elongate, subcylindrical. Limbs strong. Toes 5-5, beneath warty. Tail elongate, rounded, subcompressed. Scales smooth, moderate sized. Preanal scales equal, larger.

The EUMECES. Eumeces Oppelii, *Dum. et Bib. E. G.* v. 657. Scincus fasciatus and S. annulatus, *Oppel, MSS. Mus. Paris.* S. elongatus, *Boie, MSS. Mus. Leyd.*

Fulvous, with brown cross bands; scales brown-edged.

*a*. Adult, in spirits. New Guinea. From the Leyden Museum.

20. OTOSAURUS. Eumeces, part, *Dum. et Bib.*
Le Keneux, part, *Cocteau.*

Head short, thick. Muzzle conical, rounded. Frontoparietal single or 2 separate. Nostrils lateral. Nasal oblong, 4-sided, supernasal 2, contiguous. Lower eyelid scaly, with a cross series of larger scales. Occipital plates none. Palate with a triangular nick behind, toothless. Ears large, circular. Body fusiform. Limbs strong. Toes 5-5, compressed. Tail conical, compressed. Scales smooth, very small, very numerous, and closely imbricate, the preanal rather larger.

* *Ears tubercular in front. Eyebrow plates* 5-5.

The OTOSAURE. Otosaurus microlepis. Eumeces microlepis, *Dum. et Bib. E. G.* v. 659. Keneux de Guimard, *Coct. Tab.* 660.

Fulvous or brown, beneath whitish; the anterior loreal plate small, triangular, the frontoparietal single, hexagonal, interparietal very small, obtusely triangular; superciliary shields 5 on each side; ears large, circular, with several small tubercles on the front edge.

Inhab. Tongataboo. Mus. Paris, 2 specimens.

** *Ears simple in front, drum superficial. Eyebrow-plates* 7-7.

CUMING'S OTOSAURE. Otosaurus Cumingii.

Brown, with black interrupted cross bands, sides black above, with yellow oblique cross bands, beneath pale yellow, throat black-spotted; ears large, oblong, simple in front; drum nearly superficial; eyebrow shields 7-7, transverse, the front one triangular, hinder small; the first loreal shield square, nearly as large as the second, frontoparietal plates separate, the interparietal as large as the former, obtusely trigonal.

*a*, *b*. Half grown, in spirits. Philippines. From Mr. Cuming's collection.

This species has much the appearance of *Hinulia nævia*, p. 75, but is easily known by the two large supranasals.

21. MABOUYA, *Fitz.* Spondylurus, *Fitz.* Euprepis, part, *Wagler.*
Eumeces, part, *Dum. et Bib.*

Head subquadrangular. Muzzle conical. Frontoparietal double, or 2 united into 1. Nostril lateral, near the hinder edge

of the nasal shield, supranasal 2. Lower eyelid with a transparent disk. Palate not toothed, with a triangular notch behind. Ears moderate, open, simple. Body fusiform. Limbs 4, moderate. Toes 5-5, elongate. Scales smooth. Tail conical, acute. Preanal scales subequal.

* *Frontoparietal plates separate.*

† *Transparent disk of eyelid rather posterior. Internasal discoidal.*

Sloane's Mabouya. Mabouya Sloanei. Scincus Sloanei, *Daud. R.* iv. 287, *t.* 55, *f.* 2. *Pr. Max. Abbild. t. Sloane, Jam.* ii. 332, *t.* 273, *f.* 5. *Dum. et Bib. E. G.* v. 639. Scincus Richardii, *Coct. Mus. Par. Gray, Ann. N. H.* ii. 292.

Back with 4 black streaks from the end of the muzzle, 2 middle extending to the middle of the body, and the side ones to above the thighs; the internasal plate half discoidal, frontonasal 5-sided, contiguous, frontal elongated behind, frontoparietal and interparietal equal-sized; ears moderate, simple; tail rounded; preanal scales moderate, equal.

Inhab. Jamaica. Mus. Paris.

†† *Transparent disk of the eyelid central. Internasal rhombic.*

The Two-lined Mabouya. Mabouya agilis, *Fitz. Rept.* 32. Scincus agilis, *Raddi, Soc. Ital.* xix. 62. S. bistriatus and S. nigropunctatus, *Spix, Braz.* 23, *t.* 26, *f.* 1, 2. Tiliqua Spixii, *Coct. Tab. Dum. et Bib. E. G.* v. 642, (not *syn. Gray*). Tiliqua albolabris, *Gray, Ann. N. H.* ii. 292.

Bronze, black-dotted, with a white-edged black streak on each side; internasal plate rhombic, as long as broad, the front part of the frontal with 2 sides; ear moderate, slightly covered above with the scales of the temple; soles of feet with flat subequal tubercles; eyes small.

*a.* In spirits. Tropical America.
*b.* In spirits. Jamaica, "in holes in rocks." Presented by R. Heward, Esq.
*c.* In spirits, bleached.

The Bronzed Mabouya. Mabouya ænea. Tiliqua ænea, *Gray, Griffith, A. K.* ix. 70. *Ann. N. H.* ii. 292. Scincus lævigatus, *Guilding, MSS.*

Bronzed, black-spotted, with a broad black streak on each side, edged above and below by a narrow interrupted white streak; internasal plate rhombic, broader than long, frontal shield with 2 angles in front, acute in the middle; ears moderate, slightly covered above by the end of the temple-scales; eyes large.

*a.* In spirits. W. Indies.
*b.* In spirits. St. Vincent's. From the Rev. L. Guilding's collection.

The Mabouya. Mabouya Cepedii. Scincus Mabouya, *Coct. Mus. Par. Dum. et Bib. E. G.* v. 647, not *syn.* Tiliqua Cepedii, *Coct. Tab.*

Bronzed, black-dotted, with a broad black streak on each side and a pale streak from the lip under the ear to the shoulder; the internasal plate rhombic, rather broader than long, the front end of the frontal truncated so as to have 6 sides; the ears moderate, slightly covered with the temple-scales above.

*a.* In spirits. Brazils.

The Indian Mabouya. Mabouya elegans.

Olive brown, back with 6 narrow brown streaks of close dots, and with a broad silvery streak on each side, sides brown, tail pale brown, uniform; legs with series of minute brown dots; frontoparietal and interparietal plates distinct, pale-edged, frontal plate broad, very short in front, internasal rather broader than long, supranasal triangular, contiguous, frontonasal lateral, separate; ears small, round, simple-edged.

*a.* Young, in spirits. India. Presented by Joseph Wright, Esq.

Like *Riopa Hardwickii*, p. 96, but fusiform, and the pale streaks are wider apart.

** *Frontoparietal plate single, (2 united).* Emoia.

† *Interparietal plate distinct from the frontoparietal.*

The Black-sided Emo. Mabouya atrocostatus. Scincus atrocostatus, *Lesson, Voy. Coq.* ii. 50, t. 4, *f.* 3. Tiliqua Freycinetii, *Coct. Tab. Dum. et Bib. E. G.* v. 648.

Bronzed, black-dotted, sides black, white-dotted; the interparietal plate distinct; the scales under the toes broad, smooth; preanal scales moderate; ears with a solitary scale in front.

Inhab. Isle Vanicoro and Oualan. Mus. Paris.

Carteret's Emo. Mabouya Carteretii. Eumeces Carteretii, *Dum. et Bib. E. G.* v. 651.

Chocolate brown, beneath white; interparietal shield distinct; scales on the toes very narrow, numerous; ears moderate, circular, with a free produced scale in front.

Inhab. New Ireland. Mus. Paris, 1 spec.

†† *Interparietal plate united to the frontoparietal.*

Baudin's Emo. Mabouya Baudinii. Eumeces Baudinii, *Dum. et Bib. E. G.* v. 653.

Back brown bronzed, sides of the neck and body black, white-dotted, sides black and white dotted; the interparietal plate wanting; ears large, circular, simple in front.

Inhab. New Guinea. Mus. Paris, 3 specimens.

The Emo. Mabouya cyanura. Scincus cyanurus, *Lesson, Voy. Coq.* ii. 49, *t.* 4, *f.* 2. *Gray, Ann. N. H.* ii. 28. S. celestinus, *Mus. Leyd.* Eumeces Lessonii, *Dum. et Bib. E. G.* v. 654. Tiliqua Lessonii, and T. Keenii, *Coct. Tab.*

Black, with 3 golden streaks, middle broadest from the end of the nose, beneath greenish bronze; the interparietal plate wanting; ears suboval, partly covered above by the end of the temple scales; nasal small, nostril large, as if in the centre of 3 nasal plates; tail tapering.

*a*—*c*. In spirits. Molucca. From the Leyden Museum.
*d*, *e*. In spirits. New Guinea. From MM. Quoy and Gaimard, Mus. Paris.

f. *Supranasal* 2. *Body and tail subcylindrical, elongate. Limbs* 4, *short, weak, or rudimentary.*

22. Riopa, *Gray*. Eumeces, B. *Weigmann*. Eumeces, part, *Dum. et Bib.*

Head pyramidical. Muzzle rounded in front. Rostral erect. Frontoparietal shields double, interparietal distinct. Nostrils lateral, near the hinder edge of the nasal plate, supranasals 2, contiguous. The lower eyelid with a transparent disk. Palate not toothed, with a triangular notch behind. Ears small, circular, drum sunken. Body elongate, cylindrical. Scales smooth. Limbs very short, weak. Toes 5-5, short, unequal, with a series of compressed tubercles beneath, palm and soles equally granular. Tail elongate, cylindrical.

The Dotted Riopa. Riopa punctata, *Gray, Ann. N. H.* ii. 332. *Seba*, ii. *t.* 12, *f.* 16. *Weigm. H. M.* 36. *Dum. et Bib. E. G.* v. 634. Lacerta punctata, *Linn. Mus. Ad.* 46. *S. N.* i. 369. L. interpunctata, *Gmelin, S. N.* i. 1075. Seps scincoides, *Cuv. R. A.* ii. 64. Lygosoma punctata, *Gray, Griffith, A. K.* ix. "Tiliqua Cuvieri, and T. Duvaucellii," *Coct.* Scincus bilineatus, *Daud. Rept.* iv. 256. Le Double Raie, *Lacep. Q. O.* i. 408.

Fulvous or brown, with 4 series of black dots, the 2 central series largest, and a pale streak on each side, beneath silvery; the cheeks, sides and limbs with series of black spots; preanal scales subequal; ear simple in front; tail thick, with lines of spots above and below.

*a*. Adult, in spirits, tail broken. India.

Hardwicke's Riopa. Riopa Hardwickii.

Pale brown, back with a broad pale streak on each side, edged above with a series of very minute dark dots, sides brown, the dorsal streak 2 series of scales wide, sides brown, with some indistinct white lines; feet short, toes short; tail slender, cylindrical, uniform pale brown.

*a*. Young? in spirits. India. Presented by Gen. Hardwicke.

Ruppell's Riopa. Riopa? Ruppellii, *Gray*, *Ann. N. H.* ii. 332. Seps scincoides, *Mus. Francf.* not *Cuvier*.

Pale olive, silvery, very finely punctated, with a whitish streak on each side, edged beneath with a dark line, beneath whitish; supranasal shields ——— ?

Inhab. Arabia Petræa. Mus. Francfort.

See Lygosoma à grosse queue, *H. & J. Voy. à Pol Sud, Saur. t. 2, f. 1*, not described.

23. Hagria, *Gray*. Campsodactylus, *Dum. et Bib.*

Muzzle conical. Nostrils lateral. Nasal shields separate, supranasal 2, contiguous, frontonasal small, lateral, not contiguous, frontal large. Eyebrow shields 4-4. Frontoparietal single, triangular, nicked behind, interparietal moderate. Tongue flat, scaly, nicked. Teeth conical, simple. Palate not toothed, slightly nicked behind. Lower eyelid with a central transparent disk. Ears small, oblong, with simple edges. Body elongate, sides rounded. Scales smooth. Legs 4, short, far apart, weak. Toes 5-4, subcylindrical, unequal, simple, clawed. Tail conical, pointed.

The Hagria. Hagria Vosmaerii, *Gray*, *Ann. N. H.* ii. 333. Scincus Vosmaerii, *Coci. MSS.* (fide Mus. Paris). Campsodactylus Lamarrei, *Dum. et Bib. E. G.* v. 762. Lacerta Chalcides, *Hardwicke*, *Icon. ined. Brit. Mus. t.* 115.

Body and tail above and below with alternate brown and yellow narrow streaks, equal in number to the series of scales; head brown.

Inhab. India, Bengal. Mus. Paris.

24. Chiamela, *Gray*.

Head subquadrangular. Nasal lateral, 4-sided, separate, supranasals 2, band-like, transverse, contiguous, frontonasal lateral, frontoparietal single, interparietal large, triangular, parietal oblique. Lower eyelid with a central transparent disk. Ears small, oblong, nearly hidden under the scales. Body and tail elongate, subcylindrical. Limbs 4, weak, far apart. Toes 4-4, subcylindrical, elongate, clawed, the first hinder very short, the second and third gradually longer, the third and fourth equal and longest.

This genus differs from *Tetradactylus* in its being the large thumb-like outer toe that is deficient, and not, as in that genus, where that toe is well developed, whilst it is the smaller inner toes that are wanting.

Hardwicke's Chiamela. Chiamela lineata, *Gray*, *Ann. N. H.* ii. 333.

Golden brown, with longitudinal black lines, one in the centre of each series of scales; head brown, shields pale-edged.

*a*. Young, in spirits. India.

### 25. Senira.

Head depressed. Rostral triangular. Nostrils large, lateral, occupying nearly the whole of the small oblong nasals; supranasal large, contiguous, frontonasal moderate, approximate, frontoparietals 2, moderate, interparietal triangular. Eyes small, lower eyelid with a transparent disk. Tongue ——— ? Body cylindrical, elongate. Scales smooth. Limbs 4, very short, stout, very far apart. Toes 5-5, thick, rounded, clawed, front very short, subequal, hinder short, unequal, third and fourth longest, nearly equal. Tail round, elongated, tapering.

The Senira. Senira bicolor.

Black, lower part of sides and beneath white; young above whitish, with interrupted black streaks; rostral, supranasal, nasoloreal and upper labial shields rather swollen.

*a*. Adult, in spirits. Back deep black, sides and beneath white, limbs black-spotted in lines. Philippine Islands. From Mr. Cuming's collection.

*b*, *c*. Half-grown. Pale, back with rows of black spots, one on each scale, sides and legs black-spotted, a band of spots from the eye to over the ear. Philippine Islands. From Mr. Cuming's collection.

*d*. Adult, like *a*, but the tail more tapering, and with some of the scales of the tail showing indistinct indications of 3 keels. Philippines. From Mr. Cuming's collection.

### 26. Brachymeles, *Dum. et Bib.* Cuminia, *Gray.*

Nostril lateral. Nasal very small, separate, subanterior. Supranasal triangular, nearly contiguous, frontoparietal double, interparietal triangular. Tongue flat, slightly nicked, covered with circular convex papillæ. Palate not toothed, with a large triangular nick. Ears hidden under the skin. Lower eyelid transparent. Body cylindrical, rather elongate. Sides rounded. Limbs 4, rudimentary, short, front truncated, with 2 very short claws, the hinder rather tapering, undivided. Tail conical. Scales smooth. Teeth simple, conical.

The Brachymeles. Brachymeles Bonitæ, *Dum. et Bib. E. G.* v. 777. Cuminia, *Gray*, *Syn. B. M. Ed.* 42, 110.

Dark brown.

*a*, *b*. Adult and young. Philippine Islands. From Mr. Cuming's collection.

g. *Supranasals 4 or 6. Body and tail subcylindrical, elongate. Limbs 2 or none. Scales placed in transverse lines on the back, and in oblique ones on the sides.*

27. Ophiodes, *Wagler.* Pygodactylus, *Fitz., Wagler.* Pygopus, *Spix.* Bipes, part, *Cuvier.*

Nostrils lateral, in the middle of a small nasal shield. Supranasal 4, transverse, contiguous. Tongue granular in front, velvet-like behind, end nicked. Lower eyelid scaly. Palate toothless, with a longitudinal groove. Teeth conical, simple. Ears very small, covered with the scales. Body cylindrical, sides rounded. Scales striated, when without the epidermis, with 3 or 4 divergent central lines. Legs 2, posterior, short, flattened, undivided, pointed. Tail conical, pointed.

The tongue and scales are like *Diploglossus.*

The Cariococca. Ophiodes striatus, *Wagler, Isis,* xxi. 1828, 740. *Dum. et Bib. E. G.* v. 789. *Gray, Griffith, A. K.* ix. 73. *Ann. N. H.* ii. 334. Pygopus striatus, *Spix, Braz.* 25, *t.* 28, *f.* 1. P. cariococca, *Spix, Braz. t.* 28, *f.* 2, (young). Seps fragilis, *Raddi.* Pygodactylus Gronovii, *Fitz. Class.* 58, not *Merrem.* Pseudopus Olferii, *Licht.* Bipes lineata, *Mus. Paris.*

Pale, back with 2 brown narrow lines; sides brown, dark-edged above; lips white-spotted.

*a.* Adult, in spirits. Brazils. Presented by J. E. Gray, Esq.
*b.* Half-grown, in spirits. Pale olive, with 3 or 4 darker streaks on each side. Brazisl. Presented by T. Bell, Esq.
*c.* Stuffed. Brazils. Presented by Mrs. Parker.

28. Anguis, *Linn.* Otophis, *Fitz.*? Siguana, *Gray*? Dorfia, *Gray*?

Head conical, 4-sided, blunt. Nostril lateral, in the centre of a small ring-like nasal plate. Supranasal 4, contiguous, fronto and interparietal united into one shield. Tongue partly granular and partly velvet-like, nicked at the end. Teeth long, acute. Palate not toothed, with a longitudinal groove. Ears very small, linear, generally hidden under the scales, near the angle of the mouth. Lower eyelid scaly, opaque. Body cylindrical, elongate. Legs none, bones hidden under the skin. Tail elongate. Scales smooth, subverticillate, of the back, belly and tail 6-sided, of the sides of the body oblong, 4-sided, oblique, subimbricate, the lower part of the upper series being covered by the upper part of those of the series below them. Sometimes ovoviviparous, *Edinb. Phil. Journ.* i. 374.

M. Bibron observes that the genus *Siguana* (*Otophis*, Fitz.) only depends on the accident of the ear being sometimes more exposed. I have unfortunately not the opportunity of verifying the accuracy of this remark. I have placed *Dorfia* in this genus, until I can again examine the specimen.

The Blind Worm. Anguis fragilis, *Linn. S. N.* i. 392. *Daud. Rept.* vii. *t.* 87, *f.* 2. *Guérin, Icon. t.* 17, *f.* 2. *Gray, Ann. N. H.* ii. 334. *Dum. et Bib. E. G.* v. 792. A. Eryx, *Linn. S. N.* i. 262. *Daud. Rept.* viii. 337. A. lineata, *Laur. Syn. Rept.* 68, 178, *t.* 5, *f.* 2. A. clivica, *Laur. Daud. Rept.* vii. 281. A. bicolor, *Risso, E. M.* iii. 89. A. incerta, *Krynick, Bull. Mosq.* 52, *t.* 1. A. cinereus, *Risso, E. M.* iii. 88. Siguana Otionis, *Gray, Griffith, A. K.* ix. 74? *Ann. N. H.* ii. 334? Otophis Eryx, *Fitz. Verz.* Cæcilia, *Gesner, Serp.* 36, *f.* 9. C. vulgaris, *Aldrov. Serp.* xi. 243, *f.* C. typhlus, *Charl. Exer.* 31. C. anglica, *Pet. Mus.* ii. *Ray, Syn.* L' Orvet, *Lacep. Q. O.* ii 430, *t.* 19, *f.* 1. Blind Worm, *Penn. B. Z. t.* 4. Hazelworm, *Van Lier.*

Silvery grey, sides darker, with a dark upper edge; young with a central longitudinal dorsal streak.

*a—c.* Adult and young, in spirits, bleached. Europe. From Sir Hans Sloane's collection.

*d.* Devonshire. Presented by Dr. W. E. Leach.

*e—i.* Adult and young, in spirits. Aberdeen. Presented by Dr. Brine.

*j.* Adult, in spirits, bleached. Europe.

The Dorfia. Anguis? punctata. Dorfia punctata, *Gray, Ann. N. H.* ii. 334.

Crown and back white; nape with a central black streak ending in a line of spots; cheeks, sides and beneath black; lower lip white-dotted.

Inhab. S. Africa, Cape of Good Hope? Mus. Fort Pitt, Chatham.

Russel's Blind Worm. Anguis? melanosticta. Tortrix melanosticta, *Merrem, Tent.* 82. *Russel, Ind. Serp.* i. *t.* 42.

Reddish pale brown, black-spotted; end of tail grey, beneath white.

Inhab. India. Quickly buries itself in the sand. "Palate toothed."

II. *Scales thick, bony, rugose,* 1- *or more keeled, or closely longitudinally striated. Rostral rounded in front. Body fusiform. Limbs* 4, *generally strong. Toes* 5-5 (*rarely* 4-5), *compressed.*

C. *Tail compressed, keeled above. Scales of the tail keeled, spinose. Head-shields rugose, closely applied to the skull. Temple shielded. Lower eyelid scaly. Preanal plates few, large. Tympanum superficial.* Tropidophorina.

29. TRIBOLONOTUS, *Dum. et Bib.* Zonurus, part, *Schlegel.*

Head depressed, covered with plates quite soldered to the bone, spinose behind. Frontal and eyebrow shield distinct, more or less soldered. Palate not toothed. Tongue scaly. Nostrils lateral, in a single plate. Eyelids distinct, lower one scaly. Scales of the back bony, strongly spinose, of the belly rhombic, keeled. Toes 5-5, rather compressed, not keeled, beneath. Femoral pores none. Preanal plates 2, very large. Tail compressed, with 4 spinose keels above, and spinose on the sides above.

The TRIBOLONOTE. Tribolonotus Novæ Guineæ, *Dum. et Bib. E. G.* v. 366, *t.* 6. Zonurus N. Guineæ, *Schlegel, Zonurus*, 19, *t.* 7, *f.* 2. *Gray, Ann. N. H.* i. 388.

Brown, whitish beneath.

Inhab. New Guinea. Mus. Leyden, (Mus. Paris).

29. TROPIDOPHORUS, *Dum. et Bib.* Tropidosaurus, *Gray*, not *Boie.* Leposoma, *Cuvier*, not *Spix.*

Head squarish, with keeled rugose shields. Rostral erect, triangular. Nasal lateral, supranasal large, like the frontonasal, frontal and interparietal large, frontoparietals separate, small, internasal very small, triangular. Tongue scaly. Teeth compressed. Palate toothless, with a deep triangular notch behind. Lower eyelid with a band of large scales. Tympanum nearly superficial. Body fusiform, rather compressed. Scales of the back and upper part of the tail rhombic, keeled, spinose, of the throat and sides lozenge-shaped, keeled, of the belly roundish, 6-sided, smooth. Preanal shields 3, large, central triangular. Tail compressed, with 4 keels above, with moderate lozenge-shaped keeled scales on the sides, and a row of broader keeled scales beneath. Legs 4, strong. Toes 5-5, unequal, compressed, clawed.

The TROPIDOPHORE. Tropidophorus Cocincinensis, *Dum. et Bib. E. G.* v. 556, *t.* 57, *f.* 1. Leposoma Cochincinensis, *Cuv. R. A.* ii. 38. Tropidosaurus montanus, *Gray, Griffith, A. K.* ix. 35. T. Boiei, *Cuv. MSS. Mus. Paris.*

Brown, with black cross bands.

*a—c.* Adult, in spirits. Philippine Islands. From Mr. Cuming's collection.

30. NORBEA.

Head rather depressed, shields thick, even, granular. Rostral squarish, erect. Nasal square, lateral, supranasal none, internasal squarish, large, nicked behind, frontonasal lateral, distinct, frontal elongate, tapering behind, eyebrow-shields 4-4, large, the frontoparietals 2, small, contiguous, interparietal and parietals



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large, rather elongate. Temple covered with scales. Orbits granular. Lower eyelid with a central series of larger scales. Tympanum round, superficial. Body fusiform, rather depressed. Scales of the back roundish, 6-sided, keeled, the keels forming continued ridges, of the sides smooth, in oblique series, of the throat and under part similar but rather thinner. Preanal shields single, large, 4-sided. Tail elongate, tapering, compressed, above flattened, with 2 close series of keeled scales, with smooth scales on the sides, and a single series of rather larger scales beneath. Limbs 4, strong, rather short. Toes 5-5, compressed, unequal.

The NORBEA. Norbea Brookei.

Dull blackish brown; throat and beneath white.

*a*. In spirits. Borneo. Presented by Capt. Sir Edw. Belcher, C.B., R.N.

D. *Tail round, tapering, rarely spinose, not keeled above. Scales thick, bony, rugose or 3- or 5-keeled, rarely smoothish. Drum of ear deep.* Tiliquina.

* *Supranasal shields none.*

† *Lower eyelid scaly. Toes 5-5, short, strong. Nostrils with a curved groove behind them. Teeth large. Preanal scales rather large.*

31. TRACHYDOSAURUS, *Gray*. Trachysaurus, *Weigm.* Sibubolepis, *Cocteau*. Brachydactylus, *A. Smith*.

Head pyramidical; shields thick, convex. Nasal lateral, with a curved groove behind the nostril, nasoloreal small, supranasal none, internasal rhombic, frontonasal large, contiguous, frontal and interparietal rather short, frontoparietal 2, moderate, parietal moderate. Occiput and temple shielded. Orbit surrounded by a series of small shields. Lower eyelid scaly. Teeth short, conic. Palate not toothed. Ears oblong, rather narrow. Body thick, fusiform, back rather flattened on each side. Scales thick, convex, rugose, imbricate, of the under side thinner, crenulated round the hinder edge. Limbs 4, very short, moderate. Toes 5-5, short subequal. Palms and soles granular. Tail short, convex, covered with large convex scales, like the back above, rapidly tapering at the end.

The RUGOSE STUMP-TAIL. Trachydosaurus rugosus, *Gray, King's Voy. Austr.* ii. 424. *Ann. N. H.* ii. 288. *Wagler, Amph. t.* 36. Brachydactylus typicus, *A. Smith, S. Afr. Quart. Jour.* fig. young. *Gray, Grey, Trav. Austr.* ii. 423. Trachysaurus Peronii, *Wagler, Syst.* 163. "Scincus pachyurus, *Peron, MSS.*" Sibulolepis —— *Coct. Tab. Scinc.*

Pale brown, with broad rather irregular yellow cross bands; scales rather rugose; interparietal plate 6-sided, longer than broad.

*a—c.* Stuffed. W. Australia. From Mr. Gould's collection.
*d—f.* Stuffed. Western Australia.
*g.* In spirits, not good state. W. Australia. Presented by Capt. P. P. King, R. N.
*h.* In spirits. Houtman's Abrolhos. From Mr. Gilbert's collection.

The SPINOSE STUMP-TAIL. Trachydosaurus asper, *Gray, Zool. Erebus and Terror, Rept. t.* T. rugosus, *Gray, Grey's Trav. Aust.* ii. 428.

Interparietal plate 6-sided, as broad as long; scales very rugose; dark brown, with yellow tips to some of the scales of the back and sides in the young, of the sides only in the adult.

*a—c.* Adult, stuffed. Adelaide, W. Australia. Presented by C. D. E. Fortnum, Esq.
*d.* Half-grown, stuffed. Adelaide, W. Australia. Presented by C. D. E. Fortnum, Esq.

### 32. CYCLODUS, *Wagler.* Tiliqua, part, *Fitz.*

Head square, rounded in front, head-shields thick, rather rugose. Nasal ovate, trigonal, rather anterior, contiguous. Nostril central, with a curved groove behind. Internasal rhombic, frontonasal 2, moderate, contiguous, frontal large, broad, frontoparietal 2 large or 4 small, interparietal distinct. Occiput and temple with polygonal shields. Orbit surrounded by a series of small shields. Lower eyelid scaly. Ear oblong, partly hidden, with a series of scales in front. Body fusiform, thick, elongate. Scales of the back 6-sided, rather convex, slightly rugose, with very obscure diverging central grooves, of the under side thinner, smooth. Limbs 4, short, strong. Toes 5-5, short, cylindrical, subequal. Claws short, thick. Tail subcylindrical, tapering, half the length of the body, covered with rather thicker scales than the back, with a central series of broad scales beneath.

The GIANT CYCLODUS. Cyclodus gigas. Scincus gigas, *Bodd. N. Act. Cur.* vii. 5. *Schn. Amph.* 202. *Daud. Rept.* iv. 244. Tiliqua Whitii, *Gray, Griffith, A. K.* ix. 158. *Ann. N. H.* ii. 288. Lacerta scincoides, *Shaw, Zool. t.* 81. *Nat. Misc. t.* 179. *White, Jour.* 242, *t.* 30. S. crotaphomelas, *Lacep. Ann. Mus.* iv. 192. S. tubercatus, *Merr. Tent.* 73. Cyclodus flavigularis, *Wagler, Ic. t.* 6. Keneux de Boddaert, *Coct. Tab.* C. Boddærtii, *Dum. et Bib. E. G.* v. 752.

Ears toothed; face with a groove over the labial; internasal shield broad, frontal long; temporal plate near the eye much larger than the rest; brown, darker on the sides, with a dark streak before the orbit; sides with 9 or 10 rather oblique cross bands.

*a*. Adult, in spirits. N. Holland. Presented by Capt. White. L. scincoides, var. australis, *Shaw*, *Brit. Mus.*
*b*. Adult, stuffed. New Holland.
*c*. Adult, stuffed. Port Essington. From Mr. Gilbert's collection.
*d*. Half-grown, paler, stuffed. Port Essington. From Mr. Gilbert's collection.
*e—h*. Half-grown and young, stuffed, paler. V. D. Land. From Mr. Ronald Gunn's collection.
*g, n*. Very young, in spirits. V. D. Land. Presented by Dr. Richardson.

The Black and Yellow Cyclodus. Cyclodus nigroluteus, *Wagler*, *Syst.* 162. *Dum. et Bib. E. G.* v. 781. Scincus nigroluteus, *Quoy*, *Voy. Uran. t.* 41. *Cuv. R. A.* ii. 63. *Gray*, *Ann. N. H.* ii. 290. Keneux de l' Uranie, *Coct. Tab.* Scincus erucotis, *Peron*, *MSS. Mus. Paris.* young.

Black brown, with 2 rows of yellow spots on the back; internasal plate as long as broad, frontal short; the temporal shields moderate, rather narrow, equal-sized.

Var. 1. Blackish.
*a*. Adult, stuffed. Australia.
*b*. Half-grown, stuffed. Australia.
*i, j*. In spirits. H. Abrolhos. From Mr. Gilbert's collection.
*k, l*. In spirits. Frontoparietal shields 4 (2 pair), small. Australia. Presented by the Admiralty, from the Antarctic Expedition.
*m*. In spirits. Frontoparietal shields 2, large. Australia. Presented by the Admiralty, from the Antarctic Expedition.

Var. 2. Paler, dark marbled, very like the young of *C. gigas*, but with small nearly equal-sized temporal scales.
*c—e*. Half-grown, stuffed. Van Diemen's Land. From Mr. R. Gunn's collection.
*f—h*. Half-grown, stuffed. Australia.

### 33. Silubosaurus.

Head subquadrangular, rounded in front. Head-shields flat, thin, rather rugose. Nasal ovate, triangular, rather anterior, with a groove behind the nostril. Rostral triangular, erect. Supranasal none, internasal broad, frontonasal large, contiguous, frontal and interparietal small, frontoparietal and parietals moderate. Eyebrow shields 4-4. Temple scaly, no shield between the orbits and labial plates. Eyes rather small, lower lid scaly. Ears oblong, with 2 large scales in front. Body fusiform, roundish, thick. Scales of the back broad, lozenge-shaped, keeled, keel ending in a dagger-point, largest on the hinder parts of the throat and belly, transverse, ovate, 6-sided. Limbs 4, strong. Toes elongate, com-

pressed, unequal, clawed. Tail short, conical, tapering, depressed, with rings of large, broad, lozenge-shaped, dagger-pointed, spinose scales, with a central series of very broad 6-sided smooth scales beneath.

The Silubosaure. Silubosaurus Stokesii, *Gray*, *Stokes' Trav. Aust. t.*

Olive brown varied with black, with large white spots; shields of the head white, black-edged.

*a—c.* Adult and young, in spirits. H. Abrolhos. From Mr. Gilbert's collection.

*d—g.* Adult and young, in spirits. W. Australia. From Mr. Dring's collection.

*h*, *i*. Stuffed. W. Australia. From Mr. Leadbeater's collection.

### 34. Egernia, *Gray*.

Head quadrangular, rather tapering in front. Head-shields convex, rugose. Nasal ovate, triangular, rather anterior, approximate, supranasal none, rostral triangular, erect, internasal lozenge shaped, as long as broad, frontonasal rhombic, lateral, separate, frontal and interparietal moderate, elongate, frontoparietals 2, rather diverging, contiguous in front, parietal moderate, half ovate. Temple shielded. Orbit without any scales between it and the labial shields. Ears oblong, with 4 small scales in front. Body fusiform. Scales of the back, sides and upper part of the limbs broad 6-sided, with a large central keel ending in a spine, larger on the loins, those of the nape 3- or 5-grooved, of the throat and belly thin, broad, ovate, 6-sided. Legs 4, strong. Toes elongate, compressed, unequal, clawed. Tail as long as the body, round, tapering, with 6 series of broad, 6-sided, keeled, strongly-spined scales, with a series of broad 6-sided smooth scales.

Cunningham's Egernia. Egernia Cunninghami, *Gray*, *Ann. N. H.* ii. 288. *Stokes' Trav. Austr. t.* Tiliqua Cunninghami, *Gray*, *Proc. Z. Soc.* 1832, 40.

Olive, white-spotted, head brown, chin and beneath white; ears with 3 or 4 pointed scales in front.

*a*. Adult, stuffed. Australia, lat. 29. Presented by Allan Cunningham, Esq., F.L.S.

### 35. Tropidolepisma, *Dum. et Bib.*

Head subquadrangular, rounded in front. Head-shields rather rugose. Nasal ovate, trigonal, rather anterior, nostrils central, with a curved groove behind them, supranasal none, rostral triangular, internasal rhombic, as broad as long, frontonasal moderate, nearly contiguous, frontal and interparietal elongate, the former largest, frontoparietal contiguous in front, diverging be-

hind, parietal moderate. Lower eyelid covered with granular scales, with a larger series on its upper edge. Temple covered with shields. Orbits surrounded with a series of small scales. Palate toothless, acutely nicked behind. Ears oblong, erect, with a series of large scales in front. Body fusiform, stout. Scales moderate, transverse, ovate, 6-sided, with 3 (or on the nape 5) parallel central scales, of the throat and belly thin, smooth. Preanal shields rather larger. Legs 4, strong. Toes elongate, compressed, unequal. Tail elongate, cylindrical, rather 4-sided, tapering, covered with rather larger 3-keeled scales, and with a central series of broader smooth scales beneath.

* *Back with* 12 *rows of moderate-sized scales. Scales of the legs keeled.*

The Tropidolepisma. Tropidolepisma Kingii, *Gray, Zool. Erebus & Terror, Rept. t.* 13. Tiliqua Kingii, *Gray, Ann. N. H.* ii. 280. "Scincus Nuittensis and trifasciatus, *Peron, MSS. Mus. Par.*" "S. Napoleonis, *Cuv. MSS. Mus. Paris.*" *Gray, Ann. N. H.* ii. 290. "Psammate de Dumeril et de Napoleon, and Keneux de Delaborde, *Coct. Tab.*" Tropidolepisma Dumerilii, *Dum. et Bib. E. G.* v. 745.

Olive, varied with small greenish spots, placed in longitudinal series; chin brown, greenish spotted, belly whitish; scales rugulose, with 2 (and sometimes 3) close parallel central keels.

*a.* Adult, in spirits. New Holland. Presented by Capt. P. P. King, R.N.

*b.* Young. Back pale olive, black-varied, with a pale streak on each side; sides black, white-spotted, chin and beneath white. Swan River. From Mr. Gould's collection.

*c, d.* Half-grown, stuffed. Houtman's Abrolhos. From Mr. Gilbert's collection.

*e.* ? Adult, stuffed. Scales rather smaller and keels 3, rather wider apart. Western Australia. From Mr. Gilbert's collection. T. Gilbertii, *Gray, B.M.*

*f.* Adult, in spirits. Black and yellow spotted. Houtman's Abrolhos. From Mr. Gilbert's collection.

The Shining Tropidolepisma. Tropidolepisma nitida, *Gray, Zool. Erebus and Terror, t.* 12.

Dark olive, varied with black, sides black and white spotted; tail elongate; scales smooth, shining, in 12 series on the back, each marked with 3 short, smooth, close, rather converging keels; of the tail rather larger, with rather larger but equally smooth and sharp keels; of the upper part of the limbs with 3 close distinct keels.

*a.* Adult, stuffed. Australia.

** *Back with 8 rows of very large scales. Scales of the legs scarcely keeled.*

The LARGE TROPIDOLEPISMA. Tropidolepisma major, *Gray, Zool. Erebus and Terror, Rept. t.* 14.

Dark olive, chin and beneath whitish; scales very large, broad, smooth, in 8 series on the back, each with 3 slightly raised distinct smooth parallel keels, of the tail similar but rather larger, of the upper part of the legs nearly smooth; tail elongate.

*a*, Adult, stuffed. Australia.

†† *Lower eyelid scaly. Toes 5-5, compressed. Nasal shield flat, without any groove behind the nostril.*

37. ATEUCHOSAURUS.

Nasal subtriangular, lateral, with the nostril in the centre, without any curved groove behind it, supranasal none, rostral triangular, internasal broad, short, frontonasal small, lateral, frontal very long and broad, frontoparietals 2, rhombic, contiguous at the angle, interparietal triangular. Lower eyelid with a series of larger scales, Ears round, simple-edged. Body fusiform. Scales 6-sided, with 2 strong separate keels, of the chin and under side similar, thinner and smooth. Limbs 4, moderately strong. Toes 5-5, subcylindrical, moderate, unequal. Tail about as long as the body, round, tapering, with 2-keeled scales above and small smooth scales beneath.

The CHINESE KEELED SCALE. Ateuchosaurus Chinensis.

Brown, head paler; the keels of the scales far apart; scales in 6 series on the back; nasoloreal shield subtriangular, oblique.

*a*. In spirits, not good state, left hind foot with only 4 toes. China. Presented by J. Reeves, Esq.

††† *Lower eyelid transparent. Toes 4-5. Body and tail cylindrical, elongate.*

38. HETEROPUS, *Fitz.? Dum. et Bib.*

Muzzle conical. Nostrils lateral, in the middle of a nasal plate, supranasal none, nasal frontal single. Tongue scaly, nicked. Teeth conical, simple. Palate not toothed, with a deep triangular notch behind. Ears distinct, open. Lower eyelid transparent. Body elongate, cylindrical, sides rounded. Scales keeled. Legs 4, far apart. Toes 4-5, elongate, rather compressed, simple, clawed, hinder unequal. Tail conical, pointed.

The BROWN HETEROPUS. Heteropus fuscus, *Dum. et Bib. E. G.* v. 759.

Lower eyelid transparent; scales of the neck smooth, of the back 3-keeled.

Inhab. Isle Waigiou and Rawach, M. Quoy. Mus. Paris.

Peron's Heteropus. Heteropus Peronii, *Dum. et Bib. E. G.* v. 760.

Olive brown, a yellow-edged white-spotted black streak on each side; lower eyelid transparent; scales of the neck 3-keeled, of the back 2-keeled.

Inhab. Isle of France, MM. Peron and Lesueur. Mus. Paris.

** *Supranasal shields* 2, *distinct. Scales* 3- *or* 5-*keeled. Palate toothed. Nasal oblong, with the nostril in its hinder end, and a small nasoloreal behind it.*

39. Dasia, *Gray.* Euprepes, part, *Dum. et Bib.* Psammites, part, *Cocteau.*

Head 4-sided. Nasal small, lateral, rounded behind, square in front, supranasal elongate, narrow, not contiguous, internasal rhombic, frontonasal 5-sided, contiguous, frontal 6-sided, oblong, frontoparietals 2, contiguous, interparietal distinct. Lower eyelid covered with scales. Ear small, partly covered by the ends of the temple-scales. Body fusiform. Scales feebly keeled. Limbs 4, strong. Toes 5-5, base dilated and flat beneath, end much compressed and slightly arched, sharp-edged beneath, first and second toes nearly equal, longest. Claws compressed. Tail round, tapering.

The Olive Dasia. Dasia olivacea, *Gray, Ann. N. H.* ii. 331. Scincus Ernestii, *Boiei, MSS. Mus. Leyden. Dum. et Bib. E. G.* v. 696.

Olive; back of the head-shields black; back with 12 cross series of scales with a white central spot, and a black spot upon the sides, the bands sometimes interrupted; scales of the back 3 or 5 keeled, toothed behind, the 2 lateral keels close together; hinder part of the sides of body and tail with 2 broad white streaks; the chin and beneath green, not spotted.

Inhab. Prince of Wales' Island. (Mus. Fort Pitt, Chatham). Java, Mus. Paris, 1 specimen.

40. Tiliqua, *Gray.* Euprepes, part, *Wagler, Dum. et Bib.*

Head squarish. Nasal small, oblong, lateral. Nostril rather large, subcentral or posterior, frontonasal distinct, triangular, contiguous in front, frontoparietal shields 2, contiguous, interparietal triangular. Lower eyelid with a central longitudinal band of 4 or 5 square scales. Ears moderate, open, lobed in front. Body fusiform, stout. Scales 3- or 5-keeled. Limbs 4, stout, rather far apart. Toes 5-5. Palms slightly granular. Scales under the toes smooth. Tail round, tapering, with 3 or 5 series of rather wider scales beneath.

* *Tail and toes elongate, slender.* Asiatic.

The Indian Tiliqua. Tiliqua rufescens. Lacerta rufescens, *Shaw, Zool.* iii. 285. *Cuv. R. A.* ii. 62. *Weigm. H. M.* i. 36. Scincus multifasciatus, *Kuhl, Beitr.* 12? *Wagler, Syst.* 162. Euprepis Sebæ, *Dum. et Bib. E. G.* v. 692. — *Seba*, ii. *t.* 105, *f.* 3, *t.* 10, *f.* 4-5. Tiliqua carinata, *Gray, Zool. Journ.*

Bronze or olive, varied with a pale streak on each side, or varied with black spots; ears moderate, oval, open, with some small lobules in front; nostril subposterior; scales of the back 3-keeled; tail rounded, longer than the body, thin at the end.

*a*, *b*. Adult, in spirits. Olive, scales 3-keeled, sometimes brown-edged, forming streaks, sides white-spotted, tail rather short. Molucca. From the Leyden Museum.
Scincus Kuhlii, *Boie*, *MSS. Mus. Leyden.*

*c*. In spirits, like *a*, but with a distinct pale streak on each side. India, Dum Dum. Presented by Gen. Thomas Hardwicke.
T. carinata, *Gray, Zool. Journ.*

*d*—*f*. Adult, in spirits, like *c*, but sides, body and tail dusky, upper lip pale, with a streak on the lower part of the side. Madras. Presented by the Rev. Gerard E. Smith.

*g*, *h*. Half-grown, in spirits. Like *d*. Madras. Presented by Capt. Bevan.

*i*—*l*. In spirits. Dark olive, scales 3-keeled, sometimes dark on the sides, forming 5 or 7 narrow black streaks, cheeks and sides black and white varied, without any distinct lateral streaks. Philippines. From Mr. Cuming's collection.

*m*, *n*. Young, in spirits. Dark olive, not spotted or streaked, sides dark, with a narrow pale streak above and below in front, scales 3-keeled. Philippines. From Mr. Cuming's collection.

*q*. Young. Dark olive, with a black dorsal streak, sides black, white-spotted, sides of the throat, chin and beneath greenish white. Madras. Presented by Capt. Bevan.

*r*, *s*. Adult and half-grown, in spirits. Back pale brown, younger with a few black streaks, sides darker, white-dotted, white beneath, keel of the scales distinct, rather far apart, parallel. Borneo. Presented by Capt. Sir Edward Belcher, R.N.

*t*. Half-grown, in spirits. Discoloured.
Tiliqua affinis, *Gray, Ann. N. H.* ii. 289.

The Many-keeled Tiliqua. Tiliqua multicarinata. Scincus multicarinatus, *Kuhl?*

Dark olive, nape with a white-edged black streak; with 2 white streaks above and below, on each side of the front of the body, edged with black spots; chin and throat black-spotted; beneath whitish; head-shields rather rugose; internasal plates rhombic, as long as broad; nostrils subposterior; scales large, ovate, trans-

verse, regularly and sharply 7-keeled; ears small, round, partly covered by the scales of the temple above and in front; tail elongate, slender, rather compressed.

*a*. Adult, in spirits. Philippines. From Mr. Cuming's collection.
*b*, *c*. ? Young, in spirits. Chin white, not spotted. Philippines. From Mr. Cuming's collection. Perhaps *T. rufescens*, var.?

The Greyish Tiliqua. Tiliqua grisea.

Olive grey; scales 6-sided, 3-keeled, dark-sided, forming dark streaks on the back and sides, with an indistinct interrupted pale streak on each side; beneath whitish; nostril in the centre of the nasal, supranasal triangular, contiguous, internasal broader than long, frontonasal 5-sided, squarish, contiguous; ears very small, oblong, covered by the ends of the temple-scales in front.

*a*. Adult, in spirits. Philippines. From Mr. Cuming's collection.

** *Tail and toes short.* African.

The Fernando Po Tiliqua. Tiliqua Fernandi, *Burton*, *Proc. Z. Soc.* i. 37. *Gray*, *Ann. N. H.* ii. 203.

Brown, with the dark sides to the scales forming brown streaks; sides dark brown, white-spotted, and with oblique darker cross bands; chin and beneath brown, with rows of white spots, largest and most distinct on the chin; ears oblong, with a few small denticulations in front; tail thick, tapering, not so long as the body; toes rather short, thick.

*a*. Adult, in spirits. Fernando Po.
*b*. Adult, in spirits. Head bruised. Fernando Po.

41. Euprepis. Euprepis, part, *Wagler*, *Dum. et Bib.* Mabouya, part, *Fitz.* Rachite and Heremites, *Cocteau*, *MSS.*

Nostrils in the hinder edge of the nasal plate, frontoparietal shields 2, or united, supranasal plates 2. Lower eyelid with a transparent disk. Palate with a triangular notch behind, and with Pterygoid teeth. Body fusiform. Limbs strong. Toes 5-5. Scales 2- to 7-keeled.

* *Frontoparietals and interparietal separate.*

† *Scales small, 2-keeled. Ear with short lobes in front.*

Cocteau's Euprepes. Euprepis Coctei, *Dum. et Bib. E. G.* v. 666.

Grey, brown, brown-varied, yellow-spotted; scales of the back small, with 2 distinct keels; ear large, open, with 3 or 4 short lobules; orbit with a series of small scales beneath; preanal scales 6, large; internasal broad, lozenge-shaped, frontonasal contiguous, 5-sided.

Inhab. Africa? Mus. Paris. A single very large specimen, 5 feet 4 inches long, part of the collection "taken from the Lisbon Museum in 1809."

†† *Scales 3-keeled, moderate. Ear open, with rather large granules in front.* American.

Sabine's Euprepes. Euprepis maculatus. Tiliqua maculata, *Gray, Ann. N H.* ii. 289.

Olive, with series of white spots, generally with a black spot on each side of them, with a series of spots on each side, beginning from the back angle of the eye; beneath whitish; cheeks white-spotted; scales moderate, 3-keeled, 3-toothed behind; supranasal transverse, contiguous, internasal broad, lozenge-shaped, frontoparietal and interparietal separate, subequal; ears oblong, deep, open, with a series of 4 rather rounded tubercular scales in front; tail rather compressed, as long as the body.

*a*, *b*. In spirits, partly bleached. Demerara. Presented by Col. Edward Sabine.

The Dotted Euprepes. Euprepis punctatus. Tiliqua punctata, *Gray, Ann. N. H.* i. 289.

Dark olive, varied with dark brown and dotted with white; chin and beneath white, with rather dark edges to the scales; the head brown-varied; orbit blackish; eyelid white; scales rather small, 3-keeled and 3-toothed behind; frontoparietal and interparietal separate, frontal and interparietal elongate, narrow behind, supranasal and frontonasal contiguous; ear oblong, open, very deep, with a series of 6 small subconic scales in front; tail elongate, rather compressed.

*a*, *b*. Adult and young, in spirits. Fernando de Noronha. Presented by the Admiralty, from H.M.S. Chanticleer.

††† *Scales moderate, 3-keeled. Ear open, with short lobes in front.* African.

Perrotet's Tiliqua. Euprepis Perrotetii, *Dum. et Bib. E. G.* v. 669.

Back greyish brown, yellow-spotted; scales of the back large, 3-keeled; ear large, with short lobules in front; scales under the toes, palms and soles smooth; preanal scales nearly equal; supranasal narrow, elongate, contiguous, internasal broad, lozenge-shaped, frontonasal 5-sided, contiguous, frontal lanceolate, frontoparietal smaller than the interparietal.

Inhab. Senegal. Mus. Paris. A single specimen, 2 feet 9 inches long.

RADDON'S EUPREPES. Euprepis Raddoni.

Olive, with 5 narrow black streaks, 1 between each series of scales; sides dark, with a pale streak above and below, the lowest broadest; lips, chin and beneath white; tail elongate, rather compressed, slender; scales 3-keeled, of the back in 8 series; frontoparietal and interparietal plates distinct, subequal, frontal plate elongate, frontonasal not contiguous; ear oblong, open, with 2 small angular compressed lobules, and some smaller ones in the upper part of the front edge; palms and soles with flat tubercles.

*a.* In spirits. West Africa. From Mr. Raddon's collection.

DR. A. SMITH'S EUPREPES. Euprepis Smithii.

Olive, back with 7 broad black streaks, 1 between each series of scales, with a broad yellow streak on each side; sides dark, with a broad yellow streak rather below the middle, both yellow streaks dark edged; head-shields dark-edged; tail elongate, rather compressed; scales 3-keeled, of the back in 10 series; the frontoparietal and interparietal shields distinct, subequal, the frontonasals rhombic, contiguous, the frontal elongate; ears oblong, open, with 3 or 4 short acute conical tubercles in front, upper largest.

*a.* Stuffed. S. Africa. From the South African Museum.

DR. STANGER'S EUPREPES. Euprepis Stangeri.

Olive, with narrow interrupted streaks between the rows of scales, with a narrow darker pale streak on the upper and lower part of each side; lips pale olive, upper with a groove above, chin and beneath white; scales with 3 sharp keels; ears oblong, open, with 4 or 5 short conical scales in front; supranasal, frontonasals and frontoparietals contiguous, internasal transverse, interparietal small, triangular, frontal broad; tail elongate, rather compressed, tapering, thin at the end.

*a, b.* Adult, in spirits. Olive, back with 2 streaks of broad dark spots, lateral streak indistinct. W. Africa, Niger Expedition. Presented by Dr. Stanger.

*c.* In spirits. Tail reproduced, back slightly varied with black, lateral streak distinct. S. Africa. Presented by the Admiralty, from the Antarctic Expedition.

SAVIGNY'S EUPREPES. Euprepis quinquetæniatus *Wagler*, 162. Scincus quinquetæniatus, *Licht. Doub.* 103. S. Savignii, *Aud. Rept. Egypt.* 177, *t.* 2, *f.* 3, 4. *Dum. et Bib. E. G.* v. 677. Heremite d' Olivier, *Coct. Tab.* Tiliqua quinquestriata, *Gray, Ann. N. H.* ii. 290.

Bronzed, with 5 black-edged white streaks, the 4 lateral ones continued on the tail; sides of neck black, white-dotted; lips and chin white; ears large, oval, with 3 or 4 short lobules in front;

scales moderate, with 3 distinct keels; frontoparietal and interparietal distinct, subequal, supranasal and frontonasal each contiguous; ears oblong, with 4 very low compressed scales in front.

*a*, *b*. Adult, in spirits, partly bleached. Africa.
*d*. Younger, in spirits. W. Africa, from the Ethiopie.
*f*, *g*. Young, in spirits. W. Africa, Senegal. Presented by M. Petit.
*h*. Adult, in spirits, partly bleached, throat black, white-spotted. Africa.

Fellows' Euprepes. Euprepis Fellowsii.

Olive, back with 2 series of broad 4-sided spots; temple and sides black, with cross rows of white spots, and with a distinct continued superior and an indistinct interrupted inferior pale streak; back part of upper lip and lower side of ear, chin and beneath white; legs and tail black and white spotted; ear oblong, open, with 3 or 4 short conical scales in front; supranasal rather broad contiguous, internasal broad, interparietal triangular, moderate, longer than the frontoparietals, parietals 2, rather small; tail elongate, rather compressed at the base.

*a*—*d*. Adult and half-grown, in spirits. Xanthus. Presented by Charles Fellows, Esq.

The Seven-streaked Euprepes. Euprepis septemtæniatus, *Russ. Mus. Senck.* i. 47, *t.* 3, *f.* 1. *Dum. et Bib. E. G.* v. 680. Tiliqua Ruppellii, *Coct. Tab.* Scincus pavimentus, *Geoff. Rept. Egypt.*?

Back with many alternate black and yellow streaks; ear oval, large, with 3 or 4 small lobules in front; scales of the back nearly smooth, with 3 scarcely visible keels, of the under side of the toes smooth; palm and soles with conical tubercles; tail slender.

Inhab. Abyssinia. Mus. Frankf. (Mus. Paris, 2 specimens).

The Quaker Euprepes. Euprepis inornata.

Pale yellow brown, scales rather darker edged, sides rather paler, chin and beneath whitish; head-shields brown; cheeks and sides of the throat with a few oblong whitish spots; ear oblong, with 3 or 4 short compressed lobules in front; scales with 3 distinct parallel keels; palm and soles with conical tubercles; tail elongate, rather compressed. Very like *Tiliqua carinata*.

*a*. Adult, in spirits. ———? Presented by A. MacLeay, Esq.

†††† *Scales 3-keeled, moderate. Ears with long lobules in front.* Heremites.

The Streaked Euprepes. Euprepis vittatus. Scincus vittatus, *Oliv. Voy.* ii. 58, *t.* 29, *f.* 1. *Audouin, Rept. Egypt.* i. 178, *t.* 2, *f.* 5. S. Jomardii, *Audouin, Rept. Egypt.* i. 178, *t.* 2, *f.* 6.

S. auriculatus, *Gravenh. Mus. Berol.* Euprepes Olivieri, *Dum. et Bib. E. G.* v. 674. Lacerta rufescens, var. *Shaw, Zool.* iii. 285. *Merrem, Tent.* 71. Tiliqua subrufa, *Gray, Ann. N. H.* ii. 289.

Olive, with 4 interrupted series of irregular brown spots, with yellow streaks on each side; head-shields brown-edged; ears moderate, oval, with 2 or 3 long lobules in front; scales of the back and tail 3-keeled; preanal scales equal.

*a.* Half-grown, in spirits. Cape of Good Hope. Presented by Dr. J. Lee.

*b, c.* Half-grown, in spirits, rather bleached. S. Africa. Dr. Shaw's specimens.

†††† *Scales 5- or 7-keeled, moderate. Ears open, with short lobules in front.*

The Spotted-lipped Euprepes. Euprepis maculilabris.

Dark olive, black-varied on the edge of the scales, with a series of very distant small yellow spots on each side; cheeks and sides black, with a few small spots beneath, with a yellow streak from under the eyes, extending to the base of the fore legs; lip-shields dark, with a central yellow spot; chin and beneath white, varied with the dark edges of the scales; scales broad, 6-sided, with 5 distinct keels, of the vent rather larger; ears oblong, with several rather larger granules in front; the palm and soles with rounded tubercles; tail elongate, rather compressed.

*a.* In spirits, wants end of tail. W. Africa. From Mr. Raddon's collection.

The Blue-bellied Euprepes. Euprepis cyanogaster. Scincus oxyrhynchus, *Peron, Mus. Par.* S. cyanogaster, *Lesson, Voy. Coq.* 47, *t.* 3, *f.* 3. Psammite du Geographe, *Coct. Tab.* Euprepes Sechellensis, *Dum. et Bib. E. G.* v. 682.

Bronzed, black-dotted, with a whitish-edged black streak on each side; ears moderate, rounded, with 2 small scales in front; scales of the back and tail 5- or 7-keeled, of the under side of the toes smooth; palm and soles with small flat tubercles; tail slender, compressed at the end.

Inhab. Sechelle Islands. Mus. Paris.

††††† *Scales 6-keeled, moderate. Ears with long lobules in front.*

Bibron's Euprepes. Euprepis Bibronii, *Dum. et Bib. E. G.* v. 675. Tiliqua Bibronii, *Gray, Ann. N. H.* ii. 290. Rachite de Bibron, *Coct. Tab.*

Fulvous or olive, black-edged white vertebral streak, the sides dark brown, with 2 white streaks below, the upper one from the front of the upper lip; ears large, with 2 or 3 long lobules in front; scales of the back and tail 6-keeled, of the under side of the toes smooth; soles and palm covered with small rounded tubercles.

*a.* Half-grown, male. S. Africa.

†††††† *Scales 3-keeled. Ear small, covered with the scales of the temple in front above.*

The KEELED EUPREPES. Euprepis carinatus. Tiliqua Capensis, *Gray, Griffith, A. K.* ix. 68. *Ann. N. H.* ii. 290. Scincus carinatus, *Schn. Amph.* 184. *Merrem, Beitr.* 109, *t.* 9. *Daud. Rept.* iv. 304. Scincus trivittatus, *Cuv. R. A.* ii. 62. S. Schneideri, *Gravenh. Mus. Berol.* Tiliqua Ascensionis, *Gray, Ann. N. H.* ii. 290. Euprepes Merremii, *Dum. et Bib. E. G.* v. 671.

Back with 4 series of broad black squarish spots, divided by 3 yellow streaks, with 4 series of distant yellow spots; head-shields brown; ears oval, oblique, simple, covered in front by 2 or 3 of the temporal scales; scales of the back 3-keeled, of the tail smooth; scales under the toes keeled; soles and palms minutely spinose; tail slightly compressed at the end.

*a, b.* Stuffed. S. Africa. From the South African Museum.
*c.* Adult, in spirits. Partly bleached.
*d.* Half-grown, in spirits. S. Africa. Presented by the Earl of Derby.
*e.* Adult, in spirits. S. Africa.
*f.* In spirits, rather bleached. S. Africa.
*g.* Half-grown, in spirits, rather bleached. Island of Ascension. Tiliqua Ascensionis, *Gray.*
*h.* In spirits, partly bleached. S. Africa. Presented by Sir J. Macgregor.
*i.* Dry, from spirits. S. Africa. Presented by Jas. Sowerby, Esq.
*j. k.* Young, in spirits. S. Africa.
*l.* In spirits, partly bleached. S. Africa. Presented by Thomas Bell, Esq.

** *Frontoparietal single (united), cordate. Interparietals distinct.* Rachites.

The MADAGASCAR EUPREPES. Euprepis bistriatus. Tiliqua bistriata, *Gray, Griffith, A. K.* ix. *Ann. N. H.* ii. 280. Scincus vittatus, *Gravenh. Mus. Berol.* Euprepes Gravenhorstii, *Dum. et Bib. E. G.* v. 686.

Brown, with 4 rows of black-sided white spots, sides black, with 2 yellow streaks, the lower widest; head-shields and lips pale olive, chin and beneath white; ears moderate, oval, with 2 or 3 lobes on the front edge; scales of the back 5 or 7 keeled, of the edge of the front of the vent larger than the other; tail rounded; interparietal shields triangular.

*a.* In spirits. Madagascar. Presented by J. E. Gray, Esq.

*** *Frontoparietals united into one plate. Parietals* 2. *Interparietal none. Supranasal far apart. Occipital none.* Trissiu.

The NEW GUINEA EUPREPES. Euprepis Physicæ, *Dum. et Bib. E. G.* v. 688. Rachite de la Physicienne, *Coct. Tab.*

Brown, beneath whitish; ears large, circular, open, with 4 very small lobules on the front edge; scales of the back 3-keeled; interparietal plate none, parietal plate double.

Inhab. New Guinea, (Mus. Paris, 1 specimen).

**** *Frontoparietal united into one plate. Parietal single, crescent-shaped. Interparietal none. Supranasals contiguous.* Chioninia.

Delaland's Chioninia. Euprepis Delalandii, *Dum. et Bib. E. G.* v. 690. Rachite de Delalande, *Coct. Tab.*

Chesnut, with a yellow streak upon each side; ears moderate, oval, open, with some lobules in front; scales of the back 3-keeled; interparietal plate none, parietal plate single; crescent-shaped, truncated at the front end, frontoparietal 6-sided; tail long, slender; body rather slender.

Inhab. Cape of Good Hope. Mus. Paris.

Belcher's Chioninia. Euprepis Belcheri.

Brown, with a broad yellow streak on each side; sides dark, with a narrow rather inferior pale streak; scales 3-keeled, small, of the back in 12 longitudinal series; interparietal plate none, parietal plate single, crescent-shaped, truncated at the front end, frontoparietal single, short, vase-shaped, narrow in front, sides concave, broad and rounded behind; occipitals 2, small.

*a*, *b*. Adult and half-grown, in spirits. Borneo. Presented by Capt. Sir Edward Belcher, K.C., R.N.

E. *Tail round, tapering, unarmed, not keeled above. Scales minutely striated longitudinally, and sometimes keeled along the centre, regular, hexangular, flat. Preanal scales large, scarcely imbricate, generally in several series.* Diploglossina.

### 42. Microlepis, *Gray.*

Head depressed, broad behind, head-shields very thin. Nostrils lateral, in the hinder end of a triangular small distant nasal, just over the suture of the first and second labial. Supranasal plates 2 pair, transverse, internasal very small, triangular, frontonasal united into one broad plate, frontal elongate, frontoparietal small, far apart, interparietal elongate, parietals 2, moderate. Eyes large. Pupil round. Lower eyelid very short, rudimentary, transparent. Tongue flat, scaly, nicked at the end. Throat covered with scales. Ears large, exposed, simple-edged. Toes 5-5, elongate, slender, compressed, unequal, clawed. Legs 4, slender, elongate. Palms and soles warty. Body fusiform, 4-sided. Scales small, sharply keeled, striated. Tail elongate, compressed.

The WAVED MICROLEPIS. Microlepis undulata, *Gray, Ann. N. H.* ii. 334. Tiliqua microlepis, *Gray, Griffith, A. K.* ix. 71. Pale brown, with transverse wavy bands.

*a.* Adult, in spirits. ——— ?

43. CELESTUS, *Gray.*

Diploglossus, *Weigmann.* Diploglossus, part, *Dum. et Bib.*

Head depressed. Nostrils lateral, nasals and supranasals 2 pair, contiguous, the internasal and frontonasals united into a large shield, frontoparietal small far apart, interparietal triangular, elongate. Eyebrow-shields 5-5. Tongue with scale-like papillæ in front and filiform behind, nicked. Teeth conical. Palate not toothed, with a longitudinal nick. Ears circular, open, with a simple edge. Lower eyelid scaly, Body fusiform, sides rounded. Scales striated, slightly keeled in the centre. Limbs 4, strong. Toes 5-5, unequal, elongate, compressed, clawed. Claws small, compressed, acute. Tail pointed, rather compressed, tapering. Preanal scales in 4 rows, 6-sided, flat.

* *Internasal and frontonasal united into a single large plate. Scales with an indistinct keel. Head depressed.* Celestus.

The GALLIWASP. Celestus occiduus. Diploglossus Shawii, *Dum. et Bib. E. G.* v. 590. Lacerta occidua, *Shaw, Zool.* iii. 288. *Sloane, Jam.* ii. *t.* 273, *f.* 9. *Gray, Ann. N. H.* ii. 292. Scincus Galliwasp, *Daud. Rept.* iv. 288. S. fossor, *Merrem, Tent.* 74. Scincus monotrophis, *Kuhl, Beitr.* 128 ?

Brown or fulvous, with darker cross bands; internasal and frontonasal united in a broad 7-sided shield; tail compressed, channelled on the sides; scales finely striated, with a very narrow slight central keel; ears rather large and subtriangular; scales in front of the vent elongate, 6-sided, as long as broad; tail elongate, as long as the body; infraocular shield 5-sided, slightly coming down below the seventh and eighth, or the eighth and ninth labial shields.

*a.* Adult, in spirits. Pale brown, darker marbled, infraocular between the seventh and eighth labial. Jamaica. Presented by J. Weeks, Esq. Dr. Shaw's specimen.

*b.* Young, in spirits. Back with interrupted brown irregular transverse spots, sides brown-spotted, infraoculars between the eighth and ninth labial. Jamaica. Presented by R. Heward, Esq.

The GOLDEN GALLIWASP. Celestus striatus, *Gray, Ann. N. H.* ii. 288. Diploglossus Cliftii, *Dum. et Bib. E. G.* v. 596. Lacerta aurata, *Shaw, MSS. Mus. Col. Surg. n.* 1180.

Brown, brown-varied, sides brown-spotted; ears circular, open,

with a simple edge; tail slightly compressed; scales moderate, with numerous longitudinal striæ, and sometimes a very indistinct central keel or larger rib, of the front of the vent regular, 6-sided, as long as broad, in 4 cross rows; the interparietal plate much longer than broad; head flattened; the triangular infraocular shield partly placed between the sixth, seventh and eighth labial shields, the eighth and tenth labials small, triangular.

*a*. In spirits, bleached. W. Indies.

The THREE-STREAKED GALLIWASP. Celestus Hewardii. Tiliqua striata, *Gray, Ann. N. H.* ii. 293.

Grey brown, with numerous oblique irregular cross bands; nape with a central straight and 2 lateral converging black-edged streaks; cheeks and sides black, with oblique rather irregular transverse series of white spots; throat varied with grey; scales small, with numerous striæ and a slight central keel, of the front of the vent regular, 6-sided, broader than long, in 4 cross series; interparietal plate triangular rather longer than broad; tail elongate, compressed; ear oblong; the infraocular long, above the suture between the sixth and seventh labial, hinder labial triangular.

*a*. In spirits. Keels of scales distinct. Jamaica. Presented by R. Heward, Esq.

*b*. In spirits. Keels of the scales very indistinct. Jamaica.

*c*. In spirits, larger, in a bad state. W. Indies. From Dr. Mantell's collection.

The LARGE-SCALED GALLIWASP. Celestus macrolepis.

Brown; internasal and frontonasals united into a broad 7-sided shield; scales large, finely striated, with a very slight central keel, in front of the vent regular, 6-sided, scarcely as long as broad; ears large, subtriangular; tail compressed, shorter than the body; the infraocular shield oblong, over, but not produced down between, the seventh and eighth labial shields; labial shields 4-sided, high.

*a*. Adult, in spirits, rather discoloured. W. Indies.

### 44. CAMILIA.

Head square. Muzzle rounded. Nostrils lateral. Nasal rhombic, lateral, supranasals 2 pair, contiguous, internasal broad, frontonasals 2, distinct, rhombic, contiguous at the angle, frontal large, frontoparietal distinct, far apart, interparietal triangular. Tongue scaly in front, papillary behind, nicked at the end. Palate not toothed, with a longitudinal slit. Ears ovate, open, simple-edged. Lower eyelid scaly. Body fusiform, sides rounded. Scales striated, slightly keeled in the centre. Limbs 4, strong. Toes 5-5, short, cylindrical, unequal. Claws large, broad, slightly compressed, blunt. Tail roundish, compressed, tapering. Preanal scales large, 6-sided, in a single series.

The JAMAICA CAMILIA. Camilia Jamaicensis. Tiliqua Jamaicensis, *Gray, Ann. N. H.* ii. 293.

Olive; nape with 2, back with 8, base of tail with several, narrow dark-edged white cross lines; sides pale, with broad irregular olive cross bands; chin and beneath white; head-shields white, olive-varied; tail white, with olive cross bands; scales striated, olive, with a pale central line or slight keel.

*a*. Adult, in spirits. Jamaica.

45. DIPLOGLOSSUS. Diploglossus, part, *Dum. et Bib.* *Weigm.*

Muzzle rounded, blunt. Nostril lateral, in the very small nasal plate, supranasals 4, contiguous, frontoparietals 2, small, interparietals distinct, frontonasals 2 or none. Tongue with scale-like papillæ in front and filiform ones behind. Teeth conical. Palate toothless, with a longitudinal groove. Ears open, round, simple-edged. Lower eyelid scaly. Body and tail subcylindrical, elongate, sides rounded. Scales striated, sometimes with a central keel. Limbs 4, strong, far apart. Toes 5-5, unequal, short, cylindrical. Palm and soles granular. Tail elongate, subcylindrical, tapering. Preanal shields hexangular.

* *Frontonasal none. Toes short.* Oneyda.

† *Tail compressed. Scales keeled.*

OWEN'S DIPLOGLOSSUS. Diploglossus Owenii, *Dum. et Bib. E. G.* v. 394.

Fulvous, with numerous reddish grey streaks; supranasals contiguous, frontonasal shield none, nasal very small, frontoparietals 2, very small, internasal large, triangular; tail elongate, compressed; toes short; scales with a small central keel and 15 deep striæ; ear circular.

Inhab. America. Mus. Col. Surg. n. 1111.

†† *Tail round. Scales keelless.*

SAGRA'S DIPLOGLOSSUS. Diploglossus Sagræ, *Dum. et Bib. E. G.* v. 602.—*Coct. Sagra, Cuba*, 180, *t.* 20.

Bronzed grey, with a black streak on each side; tail rather 4-sided; toes short; ear small; scales with 4 feeble striæ, not keeled; frontonasal plates none, supranasals 2 pair, contiguous, internasal broad, superciliary shields 6-6, frontoparietals 2, small, far apart, interparietal triangular.

Inhab. Cuba. Mus. Paris?

PLEE'S DIPLOGLOSSUS. Diploglossus Pleii, *Dum. et Bib. E. G.* v. 605.

Fulvous, waved with brown, and with a brown streak on each side; tail rather 4-sided; ears large; toes short; scales not keel-

ed, with 6 or 8 striæ; frontonasal plates none, supranasals 2 pair, internasal broad; eyebrow-shields 6-6; frontoparietals small, far apart, interparietal triangular.

Inhab. Martinique. Mus. Paris.

** *Frontonasal scales* 2. *Toes elongate. Scales not keeled. Tail round. Preanal scales* 6-*sided, in* 3 *rows.* Diploglossus, *Weigm.*

The Banded Diploglossus. Diploglossus fasciatus, *Weigm. H. M.* i. 36. Tiliqua fasciata, *Fitz. Rept.* 52. *Gray, Griffith, A. K.* ix. 71. *Ann. N. H.* i. 289. *Reuse, Mus. Senck. t.* 3, *f.* 2. D. Houttuynii, *Cocteau.* — *Dum. et Bib. E. G.* v. 598. Lacerta Scincoides cærulescens, *Mus. Houttuyn. Schn. Rept.* ii. 204.

Back with broad black-edged brown bands, alternating with blue or fulvous grey bands; toes rather elongate; tail round, elongate; scales finely striated, not keeled; frontonasal plates lozenge-shaped, contiguous, infranasal 2 pair, contiguous, frontoparietal small, far apart, interparietal triangular, preanal shields hexangular, in 3 cross series.

*a.* Adult, in spirits. Brazils.
*b.* In spirits. Pernambuco. Presented by J. P. G. Smith, Esq.

On reconsideration, the genus Ophiodes, p. 99, should be referred to this tribe, and placed after *Diploglossus.*

## Fam. XVI. Ophiomores, (Ophiomoridæ).

Head regularly shielded. Muzzle rather produced. Rostral triangular, erect. Nostrils lateral, in a notch in the nasal and the supranasal shield. Teeth strait, conical, blunt. Palate not toothed. Tongue flat, scaly, feebly nicked at the tip. Ears hidden under the skin. Eyes distinct, with valvular eyelid. Body cylindrical, elongate, without any external limbs. Scales smooth, 6-sided. Tail elongate, cylindrical.

This family appears intermediate between *Scincidæ* and *Acontiadæ*, and makes it appear as if the large rostral of the latter family was formed of the rostral, supranasal and nasal shields of this family and *Scincidæ* being united together.

1. Ophiomorus, *Dum. et Bib.* Eryx, part, *Daud.* Tortrix, part, *Merrem.* Anguis, part, *Bib.*

Rostral large, triangular, erect. Supranasal large, contiguous, internasal transverse, frontonasal very small, lateral far apart, frontal very broad, frontoparietal and interparietal united together into one large subtrigonal shield, parietal lateral oblique. Lower eyelid transparent. Scales 6-sided, smooth, 2 central preanal scales large, subtriangular.

The Ophiomore. Ophiomorus miliaris, *Dum. et Bib. E. G.* v. 799. Anguis miliaris, *Pallas, Reise,* ii. 718. *Lacep. Serp.* ii. 439. *Schn. Amph.* 322. *Daud. Rept.* vii. 270. *Merrem, Tent.* 80. Anguis punctatissimus, *Bibron, Exped. Morea,* 71, *t.* 11, *f.* 5, (details not accurate).

Brown, dotted with very small black specks, forming lines along the body, those of the sides larger; sides grey; beneath white; 2 middle preanal shields large, subtriangular.

Inhab. Algiers. Mus. Paris.

## Fam. XVII. Seps, (Sepsidæ).

Rostral plate rather large, square. Nostrils in the front edge of a small shield, in a notch at the hinder side of the rostral plate. Supranasal distinct, contiguous or united, frontonasal none (or small on the side of the face), frontoparietal often wanting, sometimes united, interparietal triangular. Tongue flat, scaly, nicked at the tip. Teeth conical, simple. Palate not toothed, with a deep central longitudinal groove behind. Eyes distinct, with connivent eyelids. Lower eyelid scaly, or with a transparent disk. Body fusiform or subcylindrical, elongate. Scales smooth. Toes simple, unequal, clawed. Tail conical, pointed.

*Synopsis of the Genera.*

a. *Rostral rather produced, sharp-edged, with a large nasal notch. Head wedge-shaped.*

1. Sphænops. Legs 4. Mental shield small. Lower eyelid transparent.

2. Scelotes. Legs 2, posterior. Mental shield large. Lower eyelid scaly.

b. *Rostral rounded, erect. Head pyramidical.*

3. GONGYLUS. Legs 4. Toes 5-5. Body subfusiform. Lower eyelid transparent. Frontoparietal shield none. Ears simple.

4. THYRUS. Legs 4. Toes 5-5. Body fusiform. Lower eyelid transparent. Frontoparietal shield distinct. Ears toothed in front.

5. AMPHIGLOSSUS. Legs 4. Toes 5-5. Body elongate, cylindrical. Ears distinct. Lower eyelid scaly.

6. SEPS. Legs 4. Toes 3-3. Body cylindrical, elongate. Ears distinct. Lower eyelid transparent.

7. HETEROMELES. Legs 4. Toes 2-3. Body cylindrical, elongate. Ears indistinct. Lower eyelid transparent.

a. *Rostral large, rather produced, with a large nasal notch. Head wedge-shaped.*

1. SPHÆNOPS, *Wagler.*

Head wedge-shaped, rounded in front. Rostral large, keeled in front. Chin flat. Upper lip covering the mouth. Nostrils lateral, in a notch in the hinder edge of the large rostral, supernasals united into a cross band, small, frontonasal and frontoparietal none, internasal and frontal large, broad, interparietal small, triangular. Tongue scaly, nicked. Teeth conical, simple. Palate not toothed, with a longitudinal nick. Lower eyelid transparent. Ears small, covered by the last scales of the temple. Body elongate, angular below. Limbs rather weak. Feet small. Toes 5-5, unequal, subcylindrical, not toothed on the edge, clawed. Tail conical, pointed.

The SPHÆNOPS. Sphænops sepsoides, *Reuse, Mus. Senk.* 64. *Gray, Ann. N. H.* ii. 288. Scincus sepsoides, *Aud. Geoffr. Rept. Egypt. t.* 2, *f.* 2—10. *Sav. Rept. Egypt. t.* 2, *f.* 9, 10. Sphænops capistratus, *Wagler, Syst.* 161. *Dum. et Bib. E. G.* v. 578, *t.* 57, *f.* 3. S. frenatus, *Rupp. Mus. Francf.* S. de Seba, *Coct. Scinc. f. Seba, Thes.* iii. 15, *t.* 12, *f.* 6.

Pale brown, with longitudinal series of black dots and a black streak on each side of the muzzle.

*a—c.* Adult, in spirits. Egypt. Presented by Dr. Edw. Ruppell.
*d—g.* Adult, in spirits. (? Tail reproduced). N. Africa. Presented by M. Lefebre.

2. Scelotes, *Fitzinger*. Bipes and Pygodactylus, *Merrem*. Zygnis, *Wagner*. Chamæsaura, *Schneid*. Chalcida, *Meyen*.

Muzzle rather wedge-shaped. Rostral large, keeled in front, deeply notched on the side. Nostrils lateral, in a notch in the hinder edge of the rostral. Supranasals 2, contiguous, transverse, frontonasal none, internasal and frontal large, frontoparietal and interparietal united into a large triangular plate. Teeth conical, simple. Tongue flat, scaly, nicked. Palate toothless, with a longitudinal groove. Ear-opening very small. Lower eyelid scaly, opaque. Legs 2, posterior. Toes 2, unequal, subcylindrical, simple, clawed. Body cylindrical, elongate, sides rounded, belly flattish. Scales smooth. Tail conical, pointed, elongate.

The Bipes. Scelotes bipes. Anguis bipes, *Linn. Mus. Adolph.* i. *t.* 28, *f.* 3. *S. N.* i. 390. *Seba*, i. *t.* 86, *f.* 3. *Gmel. S. N.* i. 1079. *Wagler, Syst.* 160. *Meyer*, 31. *Schneid. Amph.* 213. Seps Gronovii, *Daud. Rept.* iv. *t.* 58, *f.* 2. S. lineata, *Harlan, J. Acad. Philad.* iv. *t.* 18, *f.* 2. Bipes anguinus, *Merr. Tent.* 76. *Gray, Ann. N. H.* ii. 336. Pygodactylus Gronovii, *Merr. Tent.* 76. *Beitr.* iii. *t.* 10. Scelotes anguinus, *Fitz.* S. Linnæi, *Dum. et Bib. E. G.* v. 786.

Silvery brown, back with 10 longitudinal black lines, the lateral ones most distinct, beneath white; scales sometimes with a central black dot.

*a—f.* Adult, in spirits. Cape of Good Hope.

b. *Rostral erect, rounded in front. Head pyramidical.*

3. Gongylus, *Wagler, Weigmann*. Mabouya, part, *Fitz*.

Head conical. Muzzle rounded. Rostral square, with a deep, angular, nasal notch. Nostril lateral, in the hinder edge of the rostral. Supernasals 2, contiguous, frontonasal and frontoparietal none, internasal broad, frontal large, interparietal very small, triangular. Palate not toothed, with a longitudinal nick. Ears distinct, simple-edged. Lower eyelid with a transparent disk. Body fusiform, subcylindrical, elongate, sides rounded. Legs 4, short, straight, far apart. Toes 5-5, unequal, rather compressed. Scales smooth. Tail round, tapering.

The Tiligugu. Gongylus ocellatus, *Wagler, Syst.* 162. *Dum. et Bib. E. G.* v. 616. Tiliqua ocellata, *Gray, Ann. N. H.* ii. 292. Scincus ocellatus, *Meyer, Syn.* 30. *Daud. Rept.* iv. *t.* 56. *Oliv. Voy. t.* 16, *f.* 1. S. variegatus, *Schn. Amph.* 185. *Licht. Doub.* 103. S. Tiligugu, *Gmel. S. N.* 1073. *Daud.* iv. 251. S. Mabouya, *Daud. R.* iv. 246. S. tirus, *Raff.* 9. S. Tiligugus, *Merr. Tent.* 73. S. Thyro, *Metaxa*. S. viridanus, *Gravenh. Mus. Berl.* Lacerta ocellata, *Forsk. F. Arab.* 13. *Geoff. Rept. E. t.* 5, *f.* 1, 2,

*t.* 2, *f.* 7. T. microcephalus, *Gray*, *Ann. N. H.* ii. 292. *Petiver*, *Gaz. f.* 120. *Bonap. Fauna Ital. t.* La Mabouya, *Lacep. Q. O.* i. 378, *t.* 24. Thyro, *Imper. H. N.* xxviii. 684.

Grey or bronzed, with black-edged white spots; ears subtriangular, open, simple in front; palate with a longitudinal slit; frontoparietal plates none, interparietal small; body subcylindrical; limbs short; preanal scales nearly equal.

Var. 1. Olive, with irregular cross series of black-sided white spots. Scincus ocellata, *Daud.*

*a*, *b*. Adult, in spirits. Egypt. Presented by M. Lefebre.

*c*. Young, in spirits. Tripoly. Presented by J. Ritchie, Esq.

*d*. Half-grown, in spirits. Egypt. Presented by Gen. Th. Hardwicke.

*e*—*h*. Half-grown, in spirits. Egypt. Presented by Sir J. Gardner Wilkinson.

*o*—*r*. Young, in spirits. Sides black. Madeira? Spain? Presented by P. B. Webb, Esq.

Var. 2. Pale olive, with 2 yellow streaks and white-spotted irregular brown cross bands. Scincus Tiligugu, *Gmel.*

*i*. In spirits. Sardinia. Presented by Prof. Bonelli.

*j*. In spirits. Malta. Presented by the Rev. W. Hennah.

*k*. In spirits. Malta. Presented by Miss Emilie Attersoll.

*l*. Young, in spirits. Malta. Presented by J. Ritchie, Esq.

*m*. Young, in spirits. Sicily. Presented by Thomas Bell, Esq.

Var. 3. Dark olive, with irregular, pale yellow spots and a few streaks. Tiliqua microcephalus, *Gray.*

*n*. Adult, in spirits. Mediterranean shores. Presented by the Rev. W. Hennah.

### 4. Thyrus. Gongylus, part, *Dum. et Bib.*

Head conical. Muzzle rounded. Rostral square, with a slight rounded notch behind for the nostril. Nostril lateral. Supranasals 2, contiguous, frontonasal none (or united to the frontal?), internasal broad, frontal large, interparietals rhombic, far apart, interparietal triangular, broad, large. Palate toothless, without any notch. Ears denticulated in front. Body fusiform. Limbs 4, moderate. Toes 5-5, elongate, compressed, unequal. Scales smooth. Tail round, tapering.

The Thyrus. Thyrus Bogerii. Scincus Bogerii, *Desj. Ann. Sci. Nat.* xxii. 296. *Dum. et Bib. E. G.* v. 625.

Body fusiform, bronzed, fulvous or brown, black-spotted or streaked; ear a longitudinal slit, as if operculated, the lower part of the front edge toothed; frontoparietal rhombic, not contiguous, interparietal large, triangular; two middle preanal shields larger.

*a*, *b*. In spirits. Isle of France. From the Paris Museum.

5. AMPHIGLOSSUS, *Dum. et Bib.* Keneux, *Cocteau, MSS.*

Muzzle blunt, conical. Nostrils lateral, between the nasal and the rostral, supernasal contiguous, internasal large, triangular, frontonasal none, frontal large, frontoparietal and interparietal united, triangular. Tongue scaly at the base, naked and nicked at the tip. Palate toothless, entire (not grooved nor nicked). Cheek-teeth straight, short, slightly compressed, rather sharp-edged. Ears small, longitudinal, simple-edged. Lower eyelid scaly. Body elongate, cylindrical, sides rounded. Scales smooth. Limbs 4, short, far apart. Toes 5-5, unequal, rather compressed, simple, clawed. Tail conical, pointed. Preanal scales like the ventral.

The KENEUX. Amphiglossus Astrolabi, *Dum. et Bib. E. G.* v. 608. Keneux de l' Astrolabe, and K. de Goudot, *Cocteau, Mus. Paris.*

Brown, beneath greyish.

Inhab. Madagascar. Mus. Paris, 2 specimens.

6. SEPS, *Daudin.* Zygnis, *Oken, Fitz., Weigmann.*

Muzzle conical, simple. Rostral square, with a rounded nasal notch. Nostril lateral, in the hinder edge of the rostral, supranasal contiguous, the internasal and frontal large, frontonasals 2, large, frontoparietals none, interparietal very small, parietals 2, large. Tongue flat, scaly, nicked at the tip. Teeth conical, simple. Palate toothless, with a longitudinal groove. Ears oblong, simple-edged. Lower eyelid with a transparent disk. Body cylindrical, elongate, sides rounded. Scales smooth. Legs 4, far apart, weak. Toes 3-3, subcylindrical, simple, unequal, clawed. Tail conical, pointed.

The CICIGNA. Seps tridactylus, *Rapp.* Seps Chalcidica, *Merrem, Tent.* 75. S. quadrilineata, and S. concolor, *Metaxa.* Seps vittatus, and S. lineatus, *Leuk. Breves.* 9. S. chalcides, *Bonap. Fauna Ital. t. Dum. et Bib. E. G.* v. 768. Lacerta chalcidica, *Aldrov.* L. chalcides, *Linn. S. N. ed.* 10, 209. L. Seps, *Shaw, Zool.* iii. 252. *Vandelli, M. Acad. Lisb.* i. 37. Zygis striata, *Fitz.* 53. *Guérin, Icon. t.* 15, *f.* 3. Ameiva meridionalis, *Meyer, Syn.* 28. Chamæsaura Chalcis, *Schn. Amph.* 287. Seps, *Lacep. Q. O.* i. 433, *t.* 31. Cicigna, *Cetti, Sard.* ii. 28, *fig.*

Pale, with series of small black specks.

*a, b.* Adult, in spirits. Turin. Presented by Prof. Bonelli.
*c, d.* Adult and half-grown, in spirits. Europe.
*e—g.* Adult and young, in spirits. Dalmatia. From Dr. Heckle's collection.
*h.* Adult, in spirits. Europe.

### 7. Heteromeles, *Dum. et Bib.*

Muzzle conical. Nostril lateral, in the hinder edge of the large rostral. Supranasal large, contiguous, internasal large, frontonasals 2, frontoparietal none, frontal large, interparietal small, triangular. Tongue flat, scaly, nicked at the tip. Teeth simple, conical. Palate toothless, with a broad longitudinal groove behind. Ears small, hidden under the scales. Lower eyelid with a transparent disk. Body cylindrical, elongate, the sides rounded. Scales smooth. Legs 4, weak, far apart. Toes 2-3, subcylindrical, simple, unequal, clawed. Tail conical, pointed.

The Heteromele. Heteromeles Mauritanicus, *Dum. et Bib. E. G.* v. 772.

Greenish, finely black-dotted, beneath whitish, the sides often blackish.

Inhab. Algiers. From Mus. Paris.

## Fam. XVII. Acontias, (Acontiadæ).

Head small, shielded. Muzzle conical. Rostral rather large, cup-shaped, internasal short, frontal large, frontoparietal none, interparietal triangular, moderate. Eyes distinct. Eyelids, lower well developed, upper small or wanting. Nostrils in the middle of the side of the rostral shield, with a slit to its hinder edge. Tongue scaly, imbricate, nicked at the point. Ears very small or hidden. Femoral pores none. Body cylindrical. Limbs 4, very short, or none. Scales smooth.

*Synopsis of the Genera.*

* *Legs* 4, *short. Ears small. Upper eyelid distinct.*

1. Nessia. Toes 3-3, short, subequal.
2. Evesia. Feet undivided, short.

** *Legs none. Upper eyelid rudimentary.*

3. Acontias. Limbs none. Eyes with a lower lid.

### 1. Nessia, *Gray.*

Muzzle conical. Ears very small, dot-like. Body cylindrical, elongate, sides rounded. Scales smooth. Legs 4, very short, far apart. Toes 3-3, subequal, clawed.

The Nessia. Nessia Burtoni, *Gray, Ann. N. H.* ii. 336. *Dum. et Bib. E. G.* v. 781.

Pale brown, beneath paler; scales darker in the middle.

Inhab. ———? Mus. Chatham.

### 2. Evesia, *Gray*.

Muzzle conical. Nostrils lateral. Rostral large, internasal half circular, frontal square, interparietal triangular, supranasal, frontonasal and frontoparietal none. Tongue flat, scaly, nicked at the tip. Teeth conical, simple. Palate not toothed, nicked behind, without any central groove. Ears very small, dot-like, hidden under the scales. Lower eyelid transparent? Body cylindrical, elongate, sides rounded. Scales smooth. Limbs 4, far apart, very short, weak, undivided, style-like. Tail rounded, pointed.

The Evesia. Evesia monodactyla, *Bell*, *MSS*. *Gray*, *Ann. N. H.* ii. 336. E. Bellii, *Dum. et Bib. E. G.* v. 783.

Fulvous, scales brown-edged, beneath paler.

Inhab. India. Mus. Bell. (Mus. Paris, given by Mr. Bell).

### 3. Acontias, *Cuvier*.

Head conical. Nostrils lateral. Internasal broad, 6-sided, frontal large, 6-sided, frontonasals and frontoparietals none, interparietal small, triangular, parietal moderate. Tongue flat, scaly, nicked at the tip. Teeth conical, blunt. Palate not toothed, with a longitudinal groove. Eyes very small. Upper eyelid wanting, lower short, scaly, opaque. Ears hidden under the skin. Body cylindrical, elongate. Scales smooth. Limbs none exserted. Tail cylindrical, short, rounded at the end.

The Acontias. Acontias meleagris, *Cuv. R. A.* ii. 71. *Gray*, *Ann. N. H.* ii. 337. *Guérin*, *Icon. t.* 17, *f.* 3. *Dum. et Bib. E. G.* v. 802. Anguis meleagris, *Linn. Mus. Adolph.* ii. 48. *S. N.* i. 390. *Seba*, i. *t.* 53, *f.* 1, ii. *t.* 21, *f.* 4. *Daud. Rept.* vii. 272. La Peintade, *Lacep. Serp.* ii. 439.

Labial scales 4-4.

*a*. Adult, in spirits. Pale brown, back with 8 series of dark spots, the outer series smaller. Cape of Good Hope. Presented by —— Ford, Esq.

*b*, *c*. Half-grown, in spirits. Pale brown, back with 6 series of brown spots. Cape of Good Hope.

*d*—*f*. Adult and half-grown, in spirits. Back brown, with very numerous very minute brown dots. Cape of Good Hope.

*g*. Adult, in spirits. Back nearly uniformly lead-coloured. Cape of Good Hope.

## Fam. XVIII. Typhlines, (Typhlinidæ).

Rostral rather large, cup-shaped. Nostril in a slit in the rostral shields. Chin with a cup-like shield. Limbs 2, posterior, undivided, or none. Body cylindrical. Tail cylindrical. Scales smooth, equal, 6-sided. Eyes and ears hidden under the skin.

*Synopsis of the Genera.*

a. *Head shielded. Preanal shield single, large.*

1. Typhline. Limbs none. Rostral large, cup-shaped. Preanal shield single, large.

b. *Head-shields small, scale-like. Preanal scales numerous.*

2. Feylinia. Limbs none. Rostral moderate, depressed.

3. Dibamus. Limbs 2, posterior. Rostral large, cup-shaped.

a. *Head shielded. Preanal shield single.*

1. Typhline, *Weigmann, Dum. et Bib.* (not Typhlina, *Wagler*).

Muzzle produced. Rostral covering half the head, keeled on the edge, flat beneath, internasal very broad, band-like, frontal broad, crescent-like, interparietal triangular, parietals 2, oblique, moderate. Limbs none. Nostril in the front of the side of the rostral, with a long groove in its hinder edge. Preanal shield single, semicircular. Eyes none, only slightly seen through the skin.

M. Bibron says this genus has no cephalic plates; his animal may be different.

The Typhline. Typhline Cuvierii, *Weigm. Herp. Mex.* 11. *Dum. et Bib. E. G.* v. 836. *Gervais, Dict. Sci. Nat. Suppl. t.* Acontias cœcus, *Cuv. R. A.* ii. 60.

Yellow, with a violet spot on the hinder edge of the scales.

*a.* Adult. Pale brown, with a purplish band across the hinder part of each dorsal scale. Cape of Good Hope.

*b, c.* Half-grown. Pale brown, nearly transparent. Cape of Good Hope. Presented by Dr. John Lee.

b. *Head-shields 6-sided, scale-like. Preanal scales numerous.*

### 2. Feylinia.

Head rather depressed, covered with 6-sided scales, narrow in front. Rostral moderate, depressed. Nostrils in the middle of the side of the rostral, with an arched groove to the hinder edge. Eyes none. Body cylindrical, rather depressed, covered with 6-sided smooth scales, those in front of the vent like those of the belly. Limbs none. Tail round, tapering.

The Feylinia. Feylinia Currori.

Dark brown ; head with 3 scales in the central series, the first (internasal) 6-sided, rounded behind, with 2 transverse supranasals in front of it, the second (the frontal) rather wider, truncated behind, the third (the interparietal) 6-sided, with the hinder edge rather produced into an angle ; the lateral scales smaller.

*a*. Adult, in spirits. Thick, tail very short, conical, reproduced. Angola. Presented by J. Curror, Esq., R.N.

*b*. Young, in spirits. Thinner, head and head-shields proportionally larger, tail half the length of the body, cylindrical. Coast of Africa. Presented by J. Curror, Esq., R.N.

### 3. Dibamus, *Dum. et Bib.*

Limbs 2, posterior, kidney-shaped. Preanal scales like the rest of the body.

The Dibame. Dibamus Novæ Guineæ, *Dum. et Bib. E. G.* v. 834. *Gervais. Dict. Sci. Nat. Serp. t. f.* Acontias subcœcus, *Schlegel, Mus. Leyd.*

Olive brown.

Inhab. New Guinea. Mus. Leyden.

## Fam. XIX. Typhlops, (Typhlopsidæ).

Head depressed, broad, rounded in front, with a large oblong erect rostral plate. Nostrils lateral, in a distinct nasal shield behind the edge of the muzzle, and with a slit to the hinder lower and sometimes to the front upper edge of the plate. Mouth small, lunate, inferior, above edged by the shields on the side of the head, upper labial shields none. Crown covered with 3 series of 6-sided scale-like shields, the middle ones representing the internasal, frontal and interparietal shields. Eyes lateral, covered by and only to be seen through the ocular shields, sometimes wanting. Tongue elongate, flat, forked at the tip. Body cylindrical, sometimes rather larger behind. Scales 6-sided, smooth. Tail cylindrical, suddenly contracted and obliquely convex and scaly above at the end, tip covered with a conical or spinose shield.

They move with considerable swiftness (*Russell*), sometimes found three or four feet under ground (*Trinbrill*), where they bury themselves in the rainy season (*Spix*), and are often found under stones (*Ince*). They are quite innocent, and not inclined to bite (*Spix* and *Russell*), and live some time after they are immersed in ordinary spirits of wine (*Russell*).

The diameter of the body, after a certain age, appears to increase during growth, much more rapidly than the length. Dr. Schlegel, in his Abbildungen, t. 32, has figured the heads and tails of eleven species, but the scales of the head are scarcely sufficiently accurate for the determination of the species with certainty.

### *Synopsis of the Genera.*

I. *Tail short. Vent edged with scales in front. The frontonasal shield lateral, narrow below. The upper lip edged by nasal and ocular only.*

* *Head nearly covered with the large oblong rostral, which is sharp-edged or keeled and concave beneath, and rather bent down in front. Nostril inferior.*

1. Typhlops. Rostral very large, oblong. Nasal, frontonasal and eye shields very narrow, rest of head covered with scales like the body.

2. Onychophis. Rostral moderate, oblong. Nasal, frontonasal and eye shields oblong, subangular. Crown with 3 series of 6-sided shields.

** *Head depressed. Rostral regularly rounded in front, convex above and below, with a central, oblong, erect rostral. The nasal, frontonasal and eye shields moderate, the rest of the head covered with 3 series of 6-sided shields.*

3. TYPHLINALIS. Head rounded. Rostral oblong, convex, rather swollen, broad. Nasal rather large, convex. Nostril inferior, with a slit to the lower edge of the plate. Supranasal none. Eyes none. Temple-shield elongate. Crown with 3 series of 6-sided shields.

4. ANILIOS. Head rounded. Rostral flat, oblong, erect, not narrowed below, regularly arched in front. Nostril with a slit to the lower edge of the nasal. Nasal, frontonasal and eye-shields oblong, subangular. Eyes distinct. Crown with 3 series of 6-sided shields.

5. STENOSTOMA. Head rounded. Rostral oblong, flat, erect, regularly arched in front, narrowed below. Nostril with a slit to the upper as well as the lower edge of the nasal. Nasal, frontonasal and eye-shields oblong, subangular. Eyes distinct. Crown with 3 series of 6-sided shields.

6. MEDITORIA. Head rather narrowed in front. Rostral oblong, rather produced and slightly angularly bent in front, tapering below. Nostril with a short slit towards the upper and one to the lower edge of the nasal. Nasal, frontonasal and eye-shields distinct, oblong, subangular. Eyes distinct. Crown with 3 series of 6-sided shields.

II. *Tail elongate, cylindrical. Vent with a single transverse shield in front. The frontonasal low down, inferior, wide and square below, forming, with the nasal and ocular, the edge of the upper lip.*

7. GLAUCONIA. Rostral shield rounded above. Crown-shields subequal. The frontonasal plate very short, to the nasal slit.

8. EPIGTIA. Rostral shield truncated above. Central crown-shields small, 6-sided, the lateral broad, transverse, the frontonasal plate moderate, to the front of the eyes.

A. *The tail short. Vent edged with scales in front. Frontonasal shield lateral, narrowed below. The upper lip edged with the base of the nasal and ocular shields only. Crown with 3 series of 6-sided scale-like shields.*

* *Head nearly covered with a large rostral, which is sharp-edged and keeled, and rather bent down in front. Tail very short. Preanal scales like the others, numerous.* Typhlopsina.

1. Typhlops, part, *Schneider.* T. sect. 2. *Cuv.*

Head depressed, almost entirely covered with a very large oblong nail-like rostral, which is horny, sharp-edged, keeled, and rather bent down in front. Nasal, frontonasal and eye-shields very narrow, the rest of the head covered with scales, like the body. Scales all small and uniform. Tail very short, suddenly tapering, convex above, apex incurved.

The Typhlops. Typhlops Russellii.

Yellowish white; rostral rather darker; tail much shorter than broad, apex incurved.

*a.* In spirits. "India. Presented by Dr. Patrick Russell."

2. Onychophis.

Head depressed, rounded. Rostral moderate, oblong, erect, rather produced, keeled, sharp-edged, horny, and slightly bent down in front. Nasal, frontonasal and eye-shields subangular, distinct. The crown of the head with 3 series of 6-sided scale-like shields. Scales all smooth, uniform. Tail cylindrical, end suddenly tapering, convex above.

* *Tail very short. Rostral broad, oblong, more than half the width of the head, keeled the whole width in front.*

Franklin's Claw-headed Snake. Onychophis Franklinii.

Pale brown above, paler beneath; the hinder half of the dorsal scales darker coloured; rostral broad, oblong, more than half as wide as the head; tail nearly as long as broad, apex conical, nearly straight.

*a.* In spirits. Australia. Presented by the Earl of Derby.

Laland's Claw-headed Snake. Onychophis Lalandii. T. Lalandii, *Schlegel, Abbild.* 40, *t.* 32, *f.* 17, 20.

Pale brown, paler beneath; rostral half as wide as the head, not contracted beneath; tail short.

Inhab. Cape of Good Hope. Mus. Leyden.

* *Tail short. The rostral large, broad, oblong, nearly half as wide as the head, obscurely keeled in the middle of the front. The first crown-shield (frontal ?) the largest, with its side-angles behind the tips of the nasal.*

Barrow's Clawed Snake. Onychophis Barrowii.

Black, back irregularly marbled and spotted with pale brown; chin and beneath pale brown; head-shields black, with a narrow yellow submarginal line; scales smooth, pale-edged in front, rather small, in many longitudinal rows; rostral rather bluntly keeled in the middle of the front, concave beneath; the front central crown-shield largest, 6-sided; tail very short, apex incurved.

*a.* In spirits. India? Presented by Sir John Barrow.

Bowdich's Clawed Snake. Onychophis punctata. Acontias punctatus, *Leach*, (*MSS. B. M.* 1816). *Bowdich*, *Africa*. Typhlops Eschrichtii, *Schlegel*, *Abbild.* 37, *t.* 32, *f.* 13, 16?

Pale brown; each of the scales with a squarish white spot; head-shields pale brown; the first central crown-shield much the largest, rather crescent-shaped; the rostral very obscurely keeled in front, rather concave below.

*a.* In spirits. Fantee, Africa. Presented by T. E. Bowdich, Esq.

** *Tail elongate. Rostral moderate, oblong, erect, about half the width of the head, keeled in the middle of the front.*

The Olive Clawed Snake. Onychophis olivaceus.

Dark olive; upper lip and beneath yellowish; scales of the back yellow-edged in front; head blackish, shields rather paler edged; rostral moderate, about one third the width of the head, rounded above, convex on the sides, slightly keeled, horny and bent down in the centre of the front; the central crown-shields equal, the two first rounded and the third rather truncated behind, rather the widest; the two shields over the eye-shield equal in size; tail elongate, cylindrical, 4 or 5 times as long as broad, apex conical.

*a.* In spirits. Philippines. From Mr. Cuming's collection.

Cuming's Clawed Snake. Onychophis Cumingii.

Pale olive or blackish grey, rather paler beneath; head rather pale; head-shields closely and minutely punctulated; the rostral moderate, rounded above, straight on the sides, about one third the width of the head; the central crown-shields unequal, rounded behind, the first largest, broad, the second smallest, and the third or hinder intermediate in size; tail subcylindrical, elongate, four or five times as long as broad, apex rather incurved.

*a*. In spirits. Blackish grey, rather paler beneath; scales nearly uniformly coloured. Indian Ocean. Presented by Capt. Sir Edward Belcher, C.B., R.N.

*b*, *c*. Adult and half grown, in spirits. Olive above, upper lip and beneath yellowish, dorsal scales yellow-edged in front. Philippines. From Mr. Cuming's collection.

The Cape Clawed Snake. Onychophis Fordii.

Pale brown, with triangular white tips to the scales; beneath white; rostral rather produced with a sharp horny margin; tail subcylindrical, elongate, nearly three times as long as broad, apex incurved.

Inhab. Cape of Good Hope, *Dr. Ford*. Mus. Fort Pitt, Chatham.

*Typhlops multicarinatus*, Schlegel, Abbild. 40, t. 32, f. 39, 42, silver grey, white streaked, from New Guinea, appears to belong to this division of this genus.

B. *Head regularly rounded in front, with a central, oblong, erect rostral. The nasal, frontonasal and eye-shields moderate. The crown of the head covered with three series of* 6*-sided shields.* Aniliina.

3. Typhlinalis. Typhlina, *Wagler*, (not Typhline, *Weigm.*)

Rostral oblong, broad, convex, rather swollen. Nostril inferior, in one shield, with a slit to the lower edge of the nasal. Nasal rather large, convex, supranasal none. Eyes none. Temple shields elongate. Crown with 3 series of broad 6-sided shields. The body thinner in front, rather enlarged and thicker behind. Tail very short, suddenly attenuated, apex acute.

The Typhinale. Typhlinalis lineatum. T. lineatum, *Boie*, *Isis*, 1827, 563. *Schlegel*, *Abbild. t.* 32, *f.* 32, 34? (not good?) *Wagler*, *Syst.* 196? Typhlops septemstriatus, *Schn. Amph.* ii. 341? *Hardw. Icon. ined. B. M. Rept. t.* 118.

Pale brown, with 8 regular brown streaks above, with 2 series of small brown spots on each side, the lines and spots are in the suture between the longitudinal series of scales; tail shorter than broad, apex acute.

*a*. In spirits, rather discoloured. India. Presented by Gen. Th. Hardwicke.

*b*. Rather younger, in spirits. India.

### 4. Anilios. Typhlops, *Wagler?*

Rostral oblong, regularly arched in front, erect, not narrowed below. Nasal, frontonasal and eye-shields flat, oblong, subangular, well developed. Supranasal none. Nostril inferior, with an arched slit to the lower edge of the nasal. Eyes distinct. Crown with 3 series of 6-sided shields, the central smallest. Body subcylindrical, rather larger behind. Scales smooth, equal-sized. Preanal scales several, like the others. Tail very short, suddenly tapering, convex above, tip acute.

* *The rostral large, broad, oblong, nearly half as wide as the head.*

The Australian Anilios. Anilios australis. Typhlops australis, *Gray, B. M.* 1838. *Zool. Erebus and Terror, t.*

Pale yellow, uniform; rostral shield broad, nasal shield broad and rounded above; the central crown-shield nearly as long as broad, 6-sided, the second (frontal) the smallest, the first and third nearly equal-sized; tail very short, about as long as wide.

*a, b.* In spirits. W. Australia. From Mr. Buchanan's collection.

** *The rostral moderate, oblong, erect, about one third the width of the head.*

Leach's Anilios. Anilios Leachii. Acontias, n. s. *Leach, MSS. B. M.*

Body subcylindrical, rather thicker behind; pale brown; chin and beneath yellow, the line of separation of the colours rather ragged; the front edge of the dorsal darker scales pale; head-shields brown, pale-edged; the rostral moderate, rounded above, very slightly concave on the sides; the 3 central crown-shields equal, the first rather rounded, and the second most truncated on the hinder edge; tail very short, scarcely so long as wide, the tip acute, incurved.

*a, b.* In spirits. The largest most alike above and below. ——?
From Mr. Stuchbury's collection.

The Black Australian Anilios. Anilios nigrescens, *Gray, Zool. Erebus and Terror, t.*

Body slender, blackish; chin and under side white, the line of separation rather ragged; the dorsal scales pale-edged, especially on the front; head whitish in front, the head-shields more or less clouded with grey in the centre; the rostral moderate, rounded above, rather convex on the sides; central crown-shields rhombic, as long as broad, the first the largest, the second and third equal-sized; tail short, tapering, rather longer than wide, tip rather blunt, scarcely incurved.

*a.* In spirits. Australia, Paramatta. Presented by G. Newport, Esq.
*b.* In spirits. Australia. Presented by the Earl of Derby.

The Red-tailed Anilios. Anilios ruficauda.

Black; upper lip, under side and end of tail red, the line of junction between the two colours rather irregular; head paler, the shields with black clouds in the centre; rostral oblong, rounded above, straight on the sides; the central crown-shields rounded behind, the first larger, then the third, the second smallest; tail very short, shorter than wide, tip acute, incurved.

*a—c.* Adult and young. Philippine Islands. From Mr. Cuming's collection.

*T. Mulleri*, Schlegel, Abbild. 39, t. 32, f. 25—28, from Sumatra, agrees with this species in colour &c., but the rostral shield is represented much broader than in our specimens.

The Black Anilios. Anilios? ater. Typhlops ater, *Schlegel, Abbild.* 39, *t.* 32, *f.* 29, 31.

Black; tail twice as long as wide, nearly straight, apex conical, tip subcentral.

Inhab. Java. Mus. Leyden.

The Small-shielded Anilios. Anilios? squamosus. Typhlops squamosus, *Schlegel, Abbild.* 36, *t.* 32, *f.* 9, 12.

Brown, beneath yellowish, head pale; head-shields very small, short.

Inhab. Guiana. Mus. Leyden.

5. Argyrophis. Stenostoma, part, *Fitz.? Wagler?* (not *Latr.* nor *Bibron*). Typhlops, part, *Wagler.*

Rostral oblong, erect, regularly arched in front and slightly convex above and below, narrow below. Nostrils inferior, with a slit extending to the upper as well as the lower edge of the nasal. Nasal, frontonasal and eye-shields flat, oblong, subangular, well developed. Eyes distinct. Crown with 3 series of 6-sided shields. Body subcylindrical. Scales smooth, equal-sized. Preanal scales many, like the others. Tail very short, suddenly tapering, convex above, tip acute, conical, incurved.

* *The upper nasal slit arched, not extending quite to the edge.*

The Black and White Silver Snake. Argyrophis bicolor. *Hardw. Icon. ined. B. Mus. Rept. t.* 119 (good), *t.* 120?

Black, upper lip and beneath white, the two colours being separated from end to end by a straight line; head-shields varied with white on the edge; the scales often whitish at the tip; upper part of tail black; the central crown-shields equal, 6-sided, the 2 first rounded behind, the second, if anything, rather the widest; rostral oblong, even-edged, about one fourth the width of the head, broad above, rounded at the tip, contracted beneath directly it reaches the bulge of the head; tail shorter than its breadth.

*a.* In spirits. Singapore. Presented by Gen. Th. Hardwicke.

HORSFIELD'S SILVER SNAKE. Argyrophis Horsfieldii.

Black, greyish beneath, the colours gradually passing into each other; scales with a subterminal white cross band; the central crown-shields equal, 6-sided, small, rounded behind; rostral shield even-edged, about one fourth the width of the head, rounded above, rather contracted beneath; tail shorter than its breadth.

*a*. In spirits. Khassia, Hill. Presented by the India Company.

The YELLOWISH SILVER SNAKE. Argyrophis vermicularis. Anguis lumbricalis, *Daud. Rept.* vii. 308, (not *Linn.*) *Cuv. R. A.* ii. 74. Le Lombric, *Lacep. Q. O.* ii. 355, *t.* 20, *f.* 1. Anguis vermicularis, *Merrem, Syst.* 158. *Bonap. Act. Torin*, ii. 427. Typhlops flavescens, *Bibron, Voy. Morea*, 72, *t.* 14, *f.* 3. *Schlegel, Abbild.* 37.

Pale yellowish brown, head uniform brighter brown, with very minute distant tubercles; rostral oblong, even-edged, about half the width of the head, contracted below; the central crown-shields 6-sided, nearly of the same width, rather angular behind, the first rather the largest; tail short, about as long as broad, apex slightly incurved.

*a*. In spirits. Bay of Salamis. Presented by Lieut. John Ince, R.N.

The DEMERARA SILVER SNAKE. Argyrophis reticulatus. Anguis reticulata, *Linn. S. N.* i. 391. *Scheuch. P. Sacra*, iv. *t.* 747, *f.* 4. *Seba*, i. *t.* 86, *f.* 2. ii. *t.* 6, *f.* 4. *t.* 7, *f.* 4. Typhlops crocotatus, *Schn. Amph.* ii. 325. Le rezeau, *Lacep. Q. O.* ii. 446. *E. M. t.* 31, *f.* 4. A. rostralis, *Weigm. Berlin Naturf.* iii. 190. *Merrem, Tent.* 159. A. nasuta, *Shaw, Zool.* iii. 587? A. rostratus, *Latr. Rept.* iv. 223? T. lumbricalis, *Schlegel, Abbild.* 35, *t.* 32, *f.* 1—4.

Reddish brown; scales rather paler edged, especially those on the sides, beneath paler; head-shields brown, with broad pale edges; rostral oblong, even-edged, about one fourth the width of the head, rounded above, with a broad erect club-shaped white mark on each side, contracted below; the first central crown-shield as long as wide, rather angular behind, the second and third shorter, slightly truncated behind, the third the widest of the three; tail much shorter than broad, tapering, with a rather elongate terminal spine.

*a*. In spirits. Demerara. Presented by Dr. Hancock.

The BROWNISH SILVER SNAKE. Argyrophis lumbricalis. Anguis lumbricalis, *Linn. S. N.* i. 391. Silver Snake, *Brown, Jam.* 460, *t.* 44, *f.* 1. A. Jamaicensis, *Shaw, Zool.* iii. 588, (not figure). Typhlops Cubæ, *Bibron. Sagra, Cuba*, 204, *t.* 22? Le Lombric, *Daub. Q. O.* 648? T. cinereus, *Guérin, Icon. Rept. t.* 18, *f.* 2??

Brown, beneath greyish white; the body very slender in front; tail rather longer than wide, rather blunt.

Inhab. Jamaica, Cuba.

** *Upper nasal slit sinuous and extending quite to the margin of the nasal.*

The Truncated Silver Snake. Argyrophis truncatus.

Greyish green, opaque; head rather truncated in front; rostral moderate, scarcely one third the width of the head, even-edged, rounded above and contracted below; the central crown-shields equal-sized, nearly as long as broad, the first and second rounded and the third rather angular behind; tail rather shorter than broad, tapering, slightly incurved.

*a—c.* In spirits. Philippines. From Mr. Cuming's collection.

The Crenulated Silver Snake. Argyrophis Bramicus. Eryx Bramicus, *Daud. Rept.* vii. 272. Tortrix Russelii, *Merrem, Tent.* 84. *Schlegel, Abbild.* 39. Punctulated Slow Worm, *Shaw, Hardw. Icon. ined. B. M. Rept. t.* 116, *t.* 117? Rondo Taloatoo Pam, *Russell, Ind. Serp. t.* 43. *Cuv. R. A.* ii. 73.

Black or greyish black, rather paler beneath; head regularly rounded and pale in front; rostral and nasal shields with a pale crenulated submarginal edge, rostral oblong, scarcely one fourth the width of the head, rounded above, contracted beneath; the crown-shields equal, rather broad, rounded behind, the fourth shield rather wider, the fifth longer than the other three.

*a.* In spirits. Ceylon. Presented by Sir Joseph Banks, Bart.
*b—d.* In spirits. Bengal. Presented by Gen. Th. Hardwicke.
*e, f.* In spirits. Scales brown, with a white spot in front, and a very narrow dark edge. India. Presented by Sir James Mac Gregor.
*g, h.* In spirits. Scales blackish, with a lead-coloured spot in front. Philippines. From Mr. Cuming's collection.
*i.* In spirits. Black. Manilla. From Mr. Cuming's collection.
*j.* In spirits. Grey brown. China. Presented by J. Reeves, Esq.
*k, l.* In spirits. Pale brown, bleached?
*m?* In spirits. Head-shields with a broader white margin, the scales pale, hinder half brown. N.E. Australia.

*** ———

The Streaked Silver Snake. Argyrophis polygrammicus. Typhlops polygrammicus, *Schlegel, Abbild.* 40, *t.* 32, *f.* 35, 38.

Pale yellow, with series of brown dots; scales brown, pale-edged; tail about as long as broad, incurved.

Inhab. Timor. Leyden Museum.

### 6. Meditoria.

Head rather narrowed in front. Rostral oblong, slightly convex above and below, rather produced in the centre in front, and slightly angularly bent over the muzzle, tapering near the upper labial. Nostrils with a short slit towards the upper edge and one to the lower edge of the nasal. Nasal, fronto-nasal and eye-shield distinct, oblong, subangular. Eyes distinct. Crown with 3 series of 6-sided shields. Tail about as long as broad, incurved, acute. Preanal scales numerous.

The Sharp-nosed Snake. Meditoria nasuta. Typhlops nasutus, *Cuv. Fitz. Cat.* 53?

Brown above, yellowish beneath, the two colours divided by an even line; scales brown in the centre and pale on the edge; the spots on the back forming 11 series; head-shields with a narrow brown submarginal line; upper part of tail brown.

*a.* In spirits. Berbice. Presented by Lady Essex.

II. *Tail elongate, cylindrical. Vent with a single transverse subtrigonal shield in front. The frontonasal low down, inferior, wide and square below, forming with the nasal and ocular the edge of the upper lip.* Glauconiina.

### 7. Glauconia.

Head broad, rounded in front. Rostral broad, oblong, rounded above. Nostril with a short slit to the upper and a longer to the lower edge of the nasal. Nasal, frontonasal? and eye-shields forming the edge of the upper lip below, the eye-shield large, erect, the frontonasal? very small, square, only reaching to the level of the hinder nasal slit. Crown with 3 series of 6-sided subequal shields. Eyes distinct. Preanal shield subtriangular, produced behind. Tail elongate, rather tapering, rounded at the end, with 3 rows of scales beneath.

The Cape Glauconia. Glauconia nigricans. Typhlops nigricans, *Schlegel, Abbild.* 38, *t.* 32, *f.* 21, 24.

Blackish; rostral full one third the width of the head; the first crown-shield rather the smallest, the second and third equal, rather larger, truncated behind; the first lateral shield over the eye small, square, the second longer, oblong, transverse.

*a.* In spirits. Cape of Good Hope. Presented by Dr. John Lee.

8. Epictia. Stenostoma, *Bibron, Spix?* (not *Fitz.* nor *Latr.*)

Head regularly rounded in front. Rostral oblong, erect, regularly arched, truncated at the tip. Nostril with a short straight slit towards the front, and a rather larger one towards the hinder

edge of the nasal. Nasal, frontonasal and eye-shield distinct, the three forming below the edge of the upper lip, the frontonasal oblong, erect, short, only reaching to the level of the eye, the eye-shield large. Crown with 3 series of shields, the central series small, 6-sided, the lateral ones oblong, transverse. Eyes distinct. Preanal shields subtriangular, produced behind. Tail rather elongate, slightly tapering, with a conical tip, and 3 series of broad 6-sided scales beneath.

From the structure of the nasal shield of this genus, it appears that in this family the nostril is normally placed between two shields (the nasal and supranasal), and that these two shields are more or less perfectly united in front of the nostrils in the different species.

Cook's Epictia. Epictia undecimstriata. Typhlops undecimstriatus, *Cuv. R. A.* ii. 74. *Schlegel, Abbild.* 36. Stenostoma albifrons, *Dum. et Bib. in D'Orbig. Voy. Amer. Merid. Rept. t.* 6, (not *Spix*).

Brown, rather paler beneath; scales all pale-edged, the brown spots forming lines; the tip of the tail white; the head-shields brown, very minutely tuberculated; central crown-shields small, 6-sided, equal, white-edged, the first lateral crown-shield rhombic, oblique, the second and third behind the tip of the eye-shield, broad, 6-sided, transverse.

*a—e.* In spirits. Tropical America. Presented by E. Cook, Esq.

The *Stenostoma albifrons*, Spix, Braz. 69, t. 25, f. 3, appears to be different.

The Double-lined Epictia. Epictia bilineatus, *Schlegel, Abbild.* 36, *t.* 32, *f.* 5, 8.

White, with series of brown spots, with a rather wider whitish streak on each side; tail elongate.

Inhab. West Indies. Mus. Leyden.

## Family XX. Rough Tails, (Uropeltidæ).

Head conical, compressed, shelving and acute in front, flat above, behind. Crown covered with regular shields. Rostral produced, moderate, convex, horny, subtriangular, erect, produced and acute behind. Nostrils roundish, lateral, simple, in the middle of the front of an erect subtriangular band-like nasal. Internasal none, frontonasal subtriangular, truncated below, contiguous above, frontal and frontoparietal distinct. Nape scaly. Labial shields $\frac{4}{4}$, distinct. Eyes distinct, lateral, in the middle of the

front of an erect eye-shield, and covered by the shield without any eyelids. Eyebrow-shields none. Tongue elongate, flat, forked at the tip. Body cylindrical. Scales 6-sided, smooth, those of the hinder part and above the tail sometimes 2-keeled. Vent with 3 scales in front. Tail cylindrical, obliquely truncated above.

This family is intermediate between the Lizards and the Snakes; following Cuvier and others, I was induced to refer it to the latter order, and therefore did not insert it in the Synopsis of the Families: but on reexamination, and comparison with the various modifications presented by the genera of Typhlopsidæ, I have been induced to place it in this order. Cuvier seems to have been in doubt, for though he placed the genus with the snakes, he also regarded the species as a section of the Typhlopses. Schlegel names the group *Pseudo Typhlops*.

*Synopsis of the Genera.*

1. Rhinophis. Tail truncated, covered with an oblong smooth shield, rather produced below.
2. Uropeltis. Tail truncated, and covered above by a moderately granular shield. Lower edge rounded.
3. Siluboura. Tail convex, and covered above with 2-keeled scales. Lower edge with a sharp-edged 2-tubercled scale.

1. Rhinophis, *Hempr.*

Tail obliquely truncated, upper part rather convex, covered with a small oblong shield, lower edge rounded, simple, rather produced. Head acute, tapering in front. Vent-shields in one marginal row.

The Rhinophis. Rhinophis oxyrhynchus, *Wagler, Syst.* 195, '*Hemp. Berl. Mag.*" Typhlops oxyrhynchus, *Schneid. Amph.* ii. 341. *Schlegel, Abbild. t.* 12.

Pale brown, with series of brown spots, one on each scale.

Inhab. ——— ? Mus. Leyden.

2. Uropeltis (part), *Cuvier.* Typhlops, part, *Cuv.*?

Tail obliquely truncated, flattish, and covered with a flat roundish radiating granular shield, lower edge rounded, the under side of the tail with 6 series of small scales.

The Philippine Shield-tail. Uropeltis Philippinus, *Cuv. R. A.* ii. 76. *Eydoux, Mag. Zool. Rept.* 1837, *t.* 13. *Muller, Triverian Zeitsch. Phys.* 1831, 248. Typhlops Philippinus, *Cuv. R. A.* ii. 74.

Brown, beneath white, the two colours separated by a very regular waved line.

Inhab. Philippine Islands. Mus. Paris.

3. Siluboura. Uropeltis, part, *Cuv.* Typhlops, part, *Cuv. Schn.*

Tail obliquely truncated, upper part of end rather convex, covered with 2-keeled scales, the lower edge acute, with a depressed sharp-edged 2-tubercled scale, lower surface with 3 series of broad larger scales. Vent-shields 1 before and 2 marginal.

The Rough Tail. Siluboura Ceylonicus. U. Ceylonicus, *Cuv. R. A.* ii. 76. *Cocteau, Mag. Zool.* 1833, *t.* 2.

Brown, minutely and indistinctly yellow-spotted, with a yellow band in front of the vent, continued in a band on each side of the tail.

*a.* In spirits. Madras. Presented by Walter Elliott, Esq.

## Suborder II. Thick-tongued Lizards, (Pachyglossæ).

### Tribe III. Nyctisaura.

Scales of the belly small, rhombic, imbricated, of the head, back and sides granular. Tongue thick, short, convex, slightly nicked at the end. Eyes nocturnal. Eyelids circular, not connivent. Pupil linear, rarely round, erect. Body depressed, sometimes fringed on the sides. Feet for walking. Toes subequal, lamellar beneath, and generally dilated.

### Family XXI. The Geckoes, (Geckotidæ).

The only Family of the Tribe.

They live on insects and worms, which they swallow whole, the œsophagus being very large. They produce a sound by the movement of their tongue against their palate, which has given rise to their name, similar to the double click often used in riding, which has been attempted to be imitated by the word *Gecko*, Fockaie and Geitge, and also to be called postilions, claqueurs and spitters. Nocturnal, avoiding the heat of the sun, and catch their food in cracks in rocks, houses, &c. Their movements are very brusque, without sound, and exceedingly rapid. They hibernate, and are provided with one or two fatty masses in front of the pubis, which are said to be a provision for their nourishment during that period. The males are smaller, and often have femoral pores which are wanting in the female. The egg is spherical, with a hard calcareous shell.

When the tail has been reproduced, it is generally covered with small square uniform scales, placed in cross series. Care should be taken not to confound these with the tails of the normal structure, which has the scales all of the same structure and form as those of the back, and generally (but not always) has a central series of larger plates beneath.

*Synopsis of the Genera.*

I. *Toes dilated, with 2 rows of membranaceous plates beneath, under the dilated part.*

A. *Last joint of the toes short, inflexed, sheathed in the notch between the front of the 2 series of plates. Claws 5-5.*

a. *Toes dilated, ovate, with 2 series of transverse equal plates beneath.*

1. THECADACTYLUS. Toes half webbed. Femoral pores none. Tail uniformly granular.

b. *Toes linear, truncated, middle of the toes with 2 rows of square plates beneath, the 2 terminal plates larger.*

2. ŒDURA. Tail subcylindrical, with square scales, unarmed. Toes all with 2 rows of small plates beneath.

3. STROPHURA. Tail cylindrical, with 2 rows of spines above, tip revolute. The 2 middle toes with 2 rows, the rest with 1 row of plates beneath.

c. *Toes linear, truncated, middle of toes with a single series of plates beneath, 2 terminal plates larger.*

4. DIPLODACTYLUS. Terminal pair of toe-plates convex, rounded at the end. Back and tail granular, uniform.

5. PHYLLODACTYLUS. Terminal pair of toe-plates thin, square at the end. Back and tail tubercular.

d. *Toes slender, dilated at the end, with 2 diverging series of plates beneath.*

6. PTYODACTYLUS. Toes free. Body simple. Tail round.

7. UROPLATES. Toes webbed. Tail and sides of the head and body fringed.

8. CAUDIVERBERA. Toes webbed. Tail and back with a membranous crest.

B. *Toes, last joint slender, compressed, elongate, produced, clawed, free from the dilated penultimate joints.*

a. *Thumb with a compressed clawed terminal joint, like the toes.*

9. HEMIDACTYLUS. Tail rather depressed, angular above, with cross rings of spines, lower edge simple. Toes free.

10. VELERNESIA. Tail rather depressed, angular above, with cross rings of spines, lower edge denticulated. Toes half webbed. Skin of sides and limbs lax.

11. DORYURA. Tail depressed, uniformly granular, denticulated on the edge. Toes free. Sides and limbs simple.

12. PLATYURUS. Tail depressed, uniformly granular, denticulated on the edge. Toes half webbed. Sides and limbs with a thin membranous expansion.

13. LEIURUS. Tail cylindrical, uniformly granular, tapering. Toes slightly webbed. Sides and limbs simple.

14. CROSSURUS. Tail cylindrical, granular, with a festooned fringe on each side.

b. *Thumb with a compressed, clawless, terminal joint.*

15. BOLTALIA. Toes free.

c. *Thumb without any compressed terminal joint, clawless.*

16. PERIPIA. Toes all free.

17. PEROPLUS. Toes two middle united at their base.

II. *Toes more or less dilated, with a single series of transverse plates beneath.*

C. *Toes dilated, the last joint (only) compressed and rather produced or wanting, the plates beneath the toes membranaceous, smooth.*

a. *Claws 5-5. Thumb with a compressed, free, clawed last joint.*

18. THECONYX. Toes free, dilated. Sides simple.

19. PENTADACTYLUS. Toes free, base slender. Sides simple.

20. PLATYDACTYLUS. Toes webbed. Sides with a margin.

b. *Claws 4-4. Thumb without any compressed, free, clawed, last joint.*

21. GECKO. Toes free, last joint short. Back tubercular.

22. GEHYRA. Toes free, last joint rather elongate, very compressed. Scales granular.

23. Amydosaurus. Toes half webbed. Back granular. Limbs and body simple.

24. Lyperosaurus. Toes half webbed. Back granular. Hinder edge of legs with a slight fold of thin membrane. Tail with a slight fringe.

25. Ptychozoon. Toes webbed. Head, body and tail with membranes on the side.

c. *Claws 2-2. All but the two middle toes without any compressed last joint.*

26. Tarentola. Lower rostral shield very long.

d. *Claws none. Toes all without any compressed last joint.*

27. Phelsuma. Toes dilated, ovate. Tail rather contracted.

28. Pachydactylus. Toes slender, short, apex rather dilated.

29. Sphærodactylus. Toes slender, with a single rounded disk at the tip.

D. *Toes and thumbs clawed, slightly dilated below at the base, the two or three last joints compressed, angularly bent, the membranous plates beneath the toes transverse, smooth.*

a. *Toes rather thick, tapering. Tail round.*

30. Naultinus. Tail cylindrical, tapering, granular. Preanal pores in 2 or 3 cross series. Back granular.

31. Eublepharis. Tail cylindrical, ringed with cross series of tubercles. Back tubercular.

32. Homonota. Tail cylindrical, tapering, granular. Preanal pores none. Back scaly.

33. Pisturus. Tail compressed, dentated above.

b. *Toes elongate, slender, compressed, versatile, joints bent at angle.*

34. Goniodactylus. Tail round, tapering, granular. Scales granular. Preanal pores none.

35. Cyrtodactylus. Tail round, tapering, with rings of tubercles. Back with rows of tubercles. Preanal pores in 2 parallel rows.

36. Heteronota. Tail round, tapering, with rings of tubercles. Back tubercular. Preanal pores in an arched series.

37. Cubina. Tail round, tapering, with rings of tubercles. The Back tubercular. Preanal and femoral pores none.

38. GYMNODACTYLUS. Tail rather depressed, tapering, with rings of tubercles. Back tubercular. Preanal pores in a curved series.

39. PHYLLURUS. Tail depressed, cordate, end round, tapering.

D. *Toes and thumbs clawed, cylindrical, tapering, toothed on the side, the plates beneath transverse, many-keeled, denticulated.*

40. STENODACTYLUS.

I. *Toes dilated, with 2 rows of membranaceous plates beneath the dilated part.*

A. *The last joint of the toes short, compressed, clawed, sheathed in the notch between the front of the 2 series of plates. Claws* 5-5. Thecadactylina.

a. *Toes ovate, notched. Plates under the toes transverse, equal. Toes dilated to the base.*

1. THECADACTYLUS, *Cuvier.* Thecodactylus, *Gray, Wagler, Weigmann.* Platydactylus, part, *Dum. et Bib.*

Toes half webbed, clawed, dilated, ovate, with a regular series of close transverse scales beneath, separated by a deep central groove, inclosing the claw. Thumb clawed, like the toes. Scales of the back very minute, equal. Body with a very slight fold on each side. Femoral nor preanal pores none. Vent with a blunt tubercle on each side. Tail round, tapering (often swollen near the base when reproduced), covered with squarish scales, which are rather larger on the under side.

The TURNIP-TAILED GECKO. Thecadactylus rapicaudus. Gecko rapicauda, *Houtt. Act. Acad. Harl.* ix. 322, *t.* 3, *f.* 1. *Gmel. S. N.* 1068. *Daud. Rept.* 141, *t.* 51. Stellio perfoliatus, *Schneid. Amph.* 26. *Shaw, Zool.* iii. 268. Gecko lævis, *Daud. Rept.* iv. 112, *t.* *Merrem, Tent.* 42. *Tilesius, Munich Trans.* 1811, *t.* 1, *f.* 1, 2, (tail entire). G. Surinamensis, *Daud. Rept.* iv. 126. Platydactylus Theconyx, *Dum. et Bib. E. G.* iii. 306.

Brown, darker marbled; scales of the back 6-sided, with minute brown specks; lower labial shield with a marginal series of chin-shields, the 2 front the largest, oblong; base of the tail with a conical tubercle on each side.

*a—d.* In spirits. Tail reproduced, swollen at the base, tapering at the end, acute. Trop. America.

*e.* In spirits. Tail slender, coloured like the back. Nevis. Presented by Thomas Cottle, Esq.

*f.* In spirits. Tail short, reproduced. Trop. America.

b. *Toes linear, truncated. Plates under the toes transverse, the 2 last larger, thick.*

2. ŒDURA, *Gray.*

Toes rather depressed, slightly dilated, linear, truncated at the end, with 2 series of a few square transverse membranaceous plates beneath, the last pair being rather the largest, with the claws between them. Claws 5-5. Back and under side covered with ovate convex equal scales, those of the side rather smaller. Tail cylindrical or rather depressed, brittle, covered above and below with close rings of square smooth scales, with 2 or 3 conical spines on each side of the base. Preanal pores in an interrupted rather arched series in the males, wanting in the females. Front lower labial shield rather large, without any chin-shields below.

* *Tail very thick, ovate, depressed, with a tapering point. Preanal pores in an arched series.*

The MARBLED ŒDURA. Œdura marmorata, *Gray, Zool. Misc.* 52. *Zool. Ereb. and Terror, t.*

Above black, spotted and banded with white, beneath white; head and limbs above black, spotted with white, a whitish band across the nape, 1 over the shoulder, 2 across the back and 1 over the hind legs; tail marbled black and white, end with 1 or 2 black bands and a white tip; sides of the head whitish; chin and under sides of the body and limbs white; tail with 2 large convexities just behind the vent, covered with larger scales, and with 2 close conical tubercles on each side of the base.

*a—e.* In spirits. N. Australia, Port Essington. From Mr. Gilbert's collection.

** *Tail cylindrical, rather fusiform. Preanal pores extending on part of the thigh.*

The LOZENGE-SPOTTED ŒDURA. Œdura rhombifer, *Gray, Zool. Erebus and Terror, t.* Phyllodactylus Lesueurii, *Dum. et Bib. E. G.* iii. 392 ??

Pale brown, back and tail paler, with a zigzag brown line on each side, as if formed by a series of pale confluent rhombic spots, a brown streak on the temple from the back of the eye; tail as long as the body, cylindrical, tapering or fusiform.

*a—c.* In spirits. W. Australia.

*Ph. Lesueurii* is described as having under the toes square plates at the base, and 3 or 4 very close plates in chevrons just before the 2 small terminal plates.

3. STROPHURA. Phyllodactylus, part, *Dum. et Bib.*

Toes all clawed, linear, truncated at the tip, the lower part of the middle of the toes with 2 series of small square plates, and the lateral with 1 series of transverse rather curved plates beneath, all with 2 oblong rather thick shields at the tip. Back unequally granular, with a series of tubercles on each side. Tail round, tapering, flexible, not brittle, rolled up beneath at the tip, and with 2 rows of subcylindrical tubercles above. Preanal pores in a double transverse series, the hinder series shortest.

The STROPHURE. Strophura spinigera, *Gray, Zool. Erebus and Terror, t.* Diplodactylus spinigerus, *Gray, Zool. Misc.* 53. Phyllodactylus Strophurus, *Dum. et Bib. E. G.* iii. 397, *t.* 32, *f.* 1.

Olive, minutely black-speckled, beneath pale; scales granular, rather unequal, larger black-tipped, with a series of subcylindrical spines along each side of the back and the upper side of the tail, scales of the tail more unequal; lower labial shields moderate, gradually diminishing in size, lower rostral moderate; the plates under the middle of the lateral toes sometimes united together into a lunated shield; preanal pores distinct, in a long anterior and a short posterior row.

*a*, *b*. In spirits. Houtman's Abrollos. From Mr. Gilbert's collection.

4. DIPLODACTYLUS, *Gray*. Phyllodactylus, part, *Dum. et Bib.* Sphærodactylus, part, *Wagler.*

Toes all clawed, linear, truncated at the tip, middle of the under side of the toes with a few broad transverse plates, ending with 2 oval convex rather thick plates, and sometimes there are a few small ones between the two kinds. Back granular, square. Tail round or fusiform, brittle, with rings of small square scales, similar above and below.

* *Vent granular in front. The plates under the middle of the toes moderate.* Australia.

† *Front lower labial large. Tail with rings of rather large scales.*

The YELLOW-CROWNED DIPLODACTYLE. Diplodactylus vittatus, *Gray, Proc. Zool. Soc.* 1832, 40. *Zool. Erebus and Terror, t. f. Dum. et Bib. E. G.* iii. 400.

Brown; back with a pale dorsal streak, and a series of small spots on each side; the crown yellow; limbs and tail yellow-spotted; the 3 front lower labial shields on each side large, the rest very small; front of the vent with distant cross series of rather larger scales; tail with an oblique series of 3 or 4 small tubercles on each side of the base.

*a*. In spirits. Back with a tapering streak. N. Holland. Presented by Allan Cunningham, Esq., F.L.S.

*b*. In spirits. Back with a series of oblong transverse and angular spots; hinder lower labial rather larger; tail reproduced, unarmed at the base. W. Australia. Presented by G. F. Moore, Esq.

†† *Lower labial gradually diminishing in size.*

The Beautiful Diplodactyle. Diplodactylus ornatus, *Gray, Zool. Erebus and Terror, t. f.*

Brown, with an irregular black-edged pale streak on each side of the crown, an irregular spot on each side of the nape, a series of rhombic spots on the centre, and unequal oblong spots on each side of the back; limbs white-spotted; tail (reproduced?), thick fusiform, pale, black-dotted, with a rounded group of 5 ovate rather acute tubercles on each side of its base; scales small; labial shields small, subequal.

*a*. In spirits. Houtman's Abrollos. From Mr. Gilbert's collection.

The Eyed Diplodactyle. Diplodactylus ocellatus, *Gray, Zool. Erebus and Terror, t. f.*

Brown, with a series of brown-edged white spots on each side of the back; lower labial shields small, gradually diminishing; lower rostral moderate; chin-scales small, granular; tail ———? vent scaly in front.

*a*. In spirits. W. Australia. From Mr. Buchanan's collection.

The Marbled Diplodactyle. Diplodactylus marmoratus, *Gray, Zool. Erebus and Terror, t. f.* Phyllodactylus porphyreus, part, *Dum. et Bib. E. G.* iii. 393, *t.* 33, *f.* 5 ?? Gecko porphyreus, *Daud. Rept.* iv. 130?

Pale, back and tail reticulated with dark brown, and generally with a central series of oblong pale spots; tail elongate, subcylindrical or fusiform, males with a round convex tubercle on each side of the base; lower labial shields small, very gradually smaller; the lower rostral small, squarish, truncated behind.

*a*—*d*. In spirits. Houtman's Abrollos. From Mr. Gilbert's collection.

*e*. In spirits. Australia.

The Two-lined Diplodactyle. Diplodactylus bilineatus, *Gray, Zool. Erebus and Terror, t. f.*

Dark brown, white-dotted, with a white streak along each side of the head; body and tail rather paler beneath, and brown-dotted; scales minutely granular; tail rather fusiform, with a conical tubercle on each side of the base; lower labial shield small.

*a*, *b*. In spirits. Houtman's Abrollos. From Mr. Gilbert's collection.

** *Vent granular in front. The plates under the middle of the toes very narrow.* Africa.

The Lined Diplodactyle. Diplodactylus lineatus.

Brown; back and tail with 2 narrow dark brown streaks on each side; sides obscurely brown-lined; tail subcylindrical, fusiform; lower labials 7-1-7, gradually smaller; the lower rostral triangular, with 2 or 4 larger 6-sided chin-shields in front.

*a.* In spirits. Cape of Good Hope.

*b.* In spirits. Cape of Good Hope. Presented by the Earl of Derby.

*** *Vent with a large naked heart-shaped plate in front.* Gerrhopygus.

The Naked Diplodactyle. Diplodactylus Gerrhopygus, *Weigm. Acad. N. Cur.* xvii. 242. *Dum. et Bib. E. G.* iii. 399.

Scales small, granular; grey, with blackish cross bands on the back and tail; front of the vent with a large heart-shaped plate; lower rostral shield large; toes slender.

Inhab. ——— ?

### 5. Phyllodactylus, *Gray.*

Toes all clawed, truncated at the tip, under side of toes with transverse square plates in the middle, ending in two thin square plates. Back granular, with lines of tubercles. Tail rather depressed, brittle, with rings of rather larger tubercles? with a series of rather larger scales beneath. Femoral and preanal pores none. Lower rostral shield very large, pentangular, with a pair of large chin-shields.

The Phyllodactyle. Phyllodactylus pulcher, *Gray, Spic. Zool.* 3, *t.* 3, *f.* 1. *Dum. et Bib. E. G.* iii. 397.

Whitish, with brown marbling; scales of the back with 20 or 22 longitudinal series of triangular tubercles; chin-shields 2, rather large, with some 6-sided scales, one on each side; tail with rings (often in pairs) of rather larger 6-sided scales.

*a.* In spirits, bleached. Tropical America?

The Large Tubercled Phyllodactyle. Phyllodactylus tuberculatus, *Weigm. Act. Nat. Cur.* xvii. *t.* 18, *f.* 2. *Dum. et Bib. E. G.* iii. 396.

Grey, brown-marbled; back with 14 or 16 series of large triangular backed tubercles; chin-shields large.

*a.* In spirits, wants tail. California. Presented by Capt. Sir Edward Belcher.

c. *Plates under the dilated cordate last joint but one of the toes in 2 diverging series. Toes slender at the base.*

6. PTYODACTYLUS, *Cuvier*, *Wagler*, *Weigmann*.

Nostrils tubular, superior, at the angle of the rostral plate. Chin with some dilated scales. Fingers and toes free, slender and rounded at the base, with small cross plates beneath, dilated at the end, terminal disk notched in front, with 2 series of diverging plates beneath. Claws 5-5, each sheathed in the notch of the disk. Back granular, with rows of larger tubercles. Preanal and femoral pores none. Tail rounded, tapering, slightly ringed, with cross series of small tubercles.

The FAN FOOT. Ptyodactylus Gecko. Lacerta Gecko, *Hasselq. Reis.* 356. Stellio Hasselquistii, *Schn. Amph.* ii. 13. *Dum. et Bib. E. G.* iii. 378, *t.* 33, *f.* 3. Gecko ascolabotes, *Merrem*, *Tent.* 40. G. lobatus, *Geoffr. Rept. Egypt. t.* 5, *f.* 5. *t.* 1. *Supp. f.* 2. *Schinz. Abbild. t.* 17. Ptyodactylus guttatus, *Rupp. Atlas*, 13, *t.* 4. Le Gecko des Maisons, *Bory*, *Dict. Class. N. H.* vii. 182. *Cuv. R. A.* ii. 56. G. maculatus, *Schinz*, *Rept. t.* 16.

Reddish brown, white-spotted; lower rostral very narrow, elongate; chin with a series of marginal shields.

a. Adult, in spirits. Egypt. Presented by James Burton, jun. Esq.

b, c. Adult and half grown, in spirits. Egypt. Presented by Sir J. Gardner Wilkinson.

d. Half grown, in spirits. Egypt. Presented by A.Christy, Esq.

7. UROPLATES, *Fitz.* Rhacoessa, *Wagler*, *Weigm.*

Toes half-webbed, with small square scales beneath, dilated at the end, terminal disk notched in front for the claws, and with 2 series of diverging scales beneath. Tail depressed, edged with a thin membrane. Preanal nor femoral pores none. Back granular, with larger scattered tubercles.

The *Sarroubé*, Lacep. Q. O. ii. 493, forming the genus *Sarrouba*, Fitz., and *Chiroperus*, Weigmann, is probably only a badly described (perhaps from a mutilated) specimen of this species; it is said to have only four fingers, and no expansions on the sides.

The FAMOCANTRATA. Uroplates fimbriatus. Stellio fimbriatus, *Schneid. Amph.* 32. *Dond. Zool.* iii. 138. *Latr. Rept.* ii. 54. *Daud. Rept.* v. 160, *t.* 52. *Dum. et Bib. E. G.* iii. 381, *t.* 33, *f.* 4. *Schinz. t.* 17. La Tete plate, *Lacep. Q. O.* i. 425, *t.* 30.

Yellow; membrane of the sides of the head and body torn and furnished with short processes; tail depressed, broad, with a slightly scalloped membrane, rounded at the end.

a, b. Adult and half grown, in spirits. Madagascar. Presented by J. E. Gray, Esq.

The SHARP-TAILED FAMOCANTRATA. Uroplates lineatus. Ptyodactylus lineatus, *Dum. et Bib. E. G.* iii. 384, *t.* 31, *f.* 1—3.

Yellowish white, with 5 or 6 brown streaks above; sides with a simple fold of skin; tail round, with a membrane on each side, ending in a point.

Inhab. ——— ? Mus. Paris, 1 specimen.

8. CAUDIVERBERA. Caudiverbera, part, *Laur.*

Toes half webbed, rather narrow at the base (granular beneath), dilated at the end, terminal disk notched in front for the claws, with 2 rows of diverging scales beneath. Tail with a deeply scalloped membrane on each side. Sides simple, rounded. Back and tail with membranaceous crest. Preanal and femoral pores none.

The CAUDIVERBERA. Caudiverbera Peruviana, *Laur. Syn.* 43. Salamandre aquatique et noire, *Feuillee, Journ. Observ. Phys. &c.* i. 319. Lacerta Caudiverbera, *Linn. S. N.* i. 359. *Merrem, Tent.* 40. Gecko cristatus, *Daud. Rept.* iv. 167. Ptyodactylus Feuillæi, *Dum. et Bib. E. G.* iii. 386.

Bluish black; eyelids and beneath slate-coloured.

Inhab. Chili, near Conception.

This species is only known from M. Feuillee's description; it is said to grow to 45 inches long.

B. *The two last joints of the toes free, compressed, produced beyond the dilated joints, clawed.* Hemidactylina.

*** *Thumb with a compressed and clawed last joint, like the toes.*

9. HEMIDACTYLUS, *Cuv.*

Toes free, pear-shaped, dilated towards the end, with 2 series of diverging scales beneath, the last joint compressed, free, exserted, clawed. Thumb elongated, like the toes, clawed. Back granular, generally with cylindrical series of large tubercles. Body with a very slight ridge upon the lower part of the side. Tail rather depressed, hexangular above, with cross rings of spines, rather convex beneath, rounded on the side beneath. The chin-scales are very variable in specimens of the same species.

* *Tail with rings of spines. Back tubercular.*

† *Tubercles of back large, keeled.*

The TRIANGULAR TUBERCLED HEMIDACTYLE. Hemidactylus trihedrus, *Lesson, Belanger, Voy.* 311, *t.* 5, *f.* 1. *Dum. et Bib. E. G.* iii. 356, *t.* 38, *f.* 8. *Daud. Rept.* iv. 155. *Merrem*, 41. *Wolf. Abbild. t.* 20, *f.* 1.

Grey, with rather darker brown spots, whitish beneath; temples brown, with white and tubercular line above and below; the back with white-spotted brown bands, back with large triangular tubercles, some opaque, white; toes broadly dilated; tail thick, rounded, with rings of triangular acute spreading spines, roundish beneath, subcaudal plate broad, 6-sided; males with angular line of preanal pores, 8-8.

*a*. In spirits. Chin-shields 4, large, rest small, preanal pores 8-8. Madras. Presented by W. Elliott, Esq.

*b*. In spirits. Male? Chin-shields 2, large, rest small, preanal pores 8-7, in an angular line. India. Presented by Sir Jas. MacGregor.

The Spotted Hemidactyle. Hemidactylus maculatus, *Dum. et Bib. E. G.* iii. 358. H. Sykesii, *Gray, B. M.*

Back grey, black-spotted, with longitudinal series of nearly 3-sided large tubercles; toes broad, last joint very long; the male with distinct femoral pores; cheek-shields 4, 2 middle elongate, with some smaller hinder ones; tail thick, rounded, with rings of triangular acute spreading tubercles, rounded beneath, subcaudal plate broad, 6-sided, regular.

*a*. In spirits. Female? India, Dukun. Presented by Col. Sykes.

*b*. Half grown, in spirits. Presented by Charles Bowring, Esq.

*c*. Half grown, in spirits. China. Presented by J. Reeves, Esq. H. Chinensis, *Gray, B. M.*

*d, e*. Young, in spirits. Bengal. Presented by Gen. Hardwicke. H. domesticus, *Hardw.*

Brook's Hemidactylus. Hemidactylus Brookii.

Pale, with irregular brown spots forming bands across the back; the head and nape brown-spotted; cheek with a broad streak from the nostrils to the eye, and 2 diverging streaks from the back of the eye, the lower to the ear; back with irregular longitudinal series of short broad ovate rather trigonal tubercles; tail with rings of triangular acute tubercles; lower rostral shortish; chin-shields 2-2, middle largest; femoral pores in a continued angular line.

*a, b*. In spirits. Borneo. Presented by Capt. Sir Edw. Belcher, C.B., R.N.

*c*, In spirits. Australia. Presented by the Earl of Derby.

The Groove-tailed Hemidactylus. Hemidactylus depressus, *Gray, Zool. Erebus and Terror, t. f.*

Tail depressed. rather broad, sides shelving, with a broad central groove above and below, lower broadest; back and hinder part of the thighs with rather distinct, large, oblong, triangular, keeled tubercles.

*a, b*. In spirits. ——— ?

†† *Tubercles of the back round, of the side angular.*

The Warty Hemidactyle. Hemidactylus verruculatus, *Cuv. R. A.* ii. 54. *Edwards, Birds, t.* 204. *Bory, Exped. Morea*, 68, *t.* 11, *f.* 2. *Dum. et Bib. E. G.* iii. 360. Gecus cyanodactylus, *Rafin. N. Gen.* 9. H. granosus, *Rupp. Atlas Zool. t.* 5. *f.* 1. H. verrucosus, *Gray, Griffith, A. K.* ix. 50. H. trihedrus, *Bonap. F. Ital. t. f.* 2. H. Burtonii, *Gray, B. M.*

Greyish, marbled with brown; back with large rather triangular tubercles; chin-scales 4, the 2 front subtriangular, large, the hinder oblong, small, the front lower labial very large, to the back of the chin-shield; toes slightly dilated; male with an angular series of preanal pores.

*a, b.* In spirits. Shores of the Mediterranean. Presented by the Rev. W. Hennah.
*c.* In spirits. Egypt. Presented by James Burton, Esq.
*d.* In spirits. Xanthus, Asia Minor. Presented by Charles Fellows, Esq.
*e.* In spirits. Presented by Thomas Bell, Esq.
*f.* In spirits.

††† *Tubercles moderate, roundish.*

The Banded Hemidactyle. Hemidactylus fasciatus, *Gray, Zool. Misc.* 58.

Pale brown, minutely black-speckled, with a broad arched dark band from the ears, across the nape, 3 broad bands across the back; back with 20 regular longitudinal lines of rather small rounded tubercles; chin with 2 small shields behind the lower rostral shields, and 3 or 4 rather larger scales behind the first under central plate; tail rounded on the sides, and slightly ringed with distant small tubercles; femoral and preanal pores interrupted in the middle.

Inhab. ——— ? Brit. Mus.

The Brazilian Hemidactyle. Hemidactylus Mabouia, *Cuv. R. A.* ii. 54. *Dum. et Bib. E. G.* iii. 362. *Gray, Griffith, A. K.* ix. 51. Gecko aculeatus, *Spix. Braz.* 16, *t.* 18, *f.* 3. G. incanascens, *Nieuw. Abbild. t. f.* 2. Thecadactylus pollicaris, *Spix, Braz. t.* 7. *t.* 18, *f.* 2? G. armatus, *Nieuweid, Abbild. t. f.* 3—6.

Fulvous, with 5-sided brown spots across the back; back with small conical tubercles; femoral and preanal pores continued, distinct.

*a—c.* In spirits. Brazils. From Dr. Gardiner's collection.
*d.* In spirits. Brazils.
*e.* Young, in spirits. Pernambuco. Presented by Mrs. J. P. G. Smith.

The WANDERING HEMIDACTYLE. Hemidactylus mercatorius, *Gray, Z. M.* 58.

Pale brown; head with 2, back with 3, interrupted angular black cross bands; tail with irregular black cross bands; beneath yellowish white; back with small roundish trihedral tubercular scales; male femoral pores in a continued subangular series, each in the front edge of a scale, female with an angular continued series of preanal pores.

*a.* In spirits. Madagascar. Presented by J. E. Gray, Esq.
*b.* In spirits. Brazils. Presented by Lord Stuart de Rothsay.

The STREAKED HEMIDACTYLE. Hemidactylus frenatus, *Schlegel, Mus. Leyd. Dum. et Bib. E. G.* iii. 366. H. lateralis, *Gray, B. M.* H. quinquelineatus, *Gray, B. M.*

Grey; sides with small granuliform tubercles; thumb short; chin-shields 4; tail rounded, with cross rows of small spines; femoral and preanal pores in a continued line.

*a.* In spirits. ——— ?
*b, c.* In spirits. Ceylon.

LESCHENAULT'S HEMIDACTYLE. Hemidactylus Leschenaultii, *Dum. et Bib. E. G.* iii. 364. Stellio Argyropus, *Tilesius, Mem. Petersb.* vii. 334, *t.* 11 ?

Back with small scattered conical tubercles in the middle; the edge of the orbits prominent and prolonged on the muzzle; toes moderate; tail very slightly depressed; males with 26 femoral pores, in 2 lines, which are pierced in the front edge of the scales.

Inhab. Ceylon. Mus. Paris.

The STREAKED CHEEKED HEMIDACTYLE. Hemidactylus vittatus.

Grey, with 2 black streaks on each cheek, and a broad black streak on each side of the neck and shoulders; lips brown-spotted; back granular, with 2 rows of distant rounder tubercles on each side; tail with rings of 6 distant small triangular acute tubercles.

*a, b.* In spirits. Borneo. Presented by Capt. Sir Edward Belcher, C.B., R.N.

** *Tail squarish, with rings of spinose tubercles. Back equally granular.*

BELL'S HEMIDACTYLE. Hemidactylus Bellii.

Pale olive, blackish marbled, with a streak from the back of the eyes to the ear; beneath pale; tail nearly square, the upper series of spines on each side nearer together than the lower; femoral pores interrupted in the middle; chin-shields 4, the 2 central long, rhombic, rather narrower behind, the hinder triangular, rounded at the hinder angle.

*a.* In spirits. ——— ? Presented by Thomas Bell, Esq.

Weigmann's Hemidactyle. Hemidactylus Peruvianus, *Weigmann, Act. Nat. Cur.* xvii. 240. *Dum. et Bib. E. G.* iii. 369.

Grey, blackish marbled, with roundish white spots; scales of the back equal, granular, nearly circular; tail rather depressed; sides rounded, spinose; thumb small, perfect, clawed.

Inhab. Peru. Mus. Berlin.

### 10. Velernesia.

Toes united by a web at the base, rather dilated towards the end, with 2 rows of diverging plates beneath. Thumb free, dilated at the base, with a distinct compressed last joint, clawed. Skin of the sides and hinder part of the thigh very lax and puckered. Tail rather depressed, flat beneath, sharp-edged, with a close series of depressed spines on each margin, upper part 4-sided, with distant rings of conical tubercles. Femoral and preanal pores in an angular series.

The Velernesia. Velernesia Richardsonii.

Scales of the back equal, nearly circular, with a few scattered large round, convex tubercles; tail rather depressed, sides erect, upper part subangular, with 4 series of small conical spines, placed in cross series.

*a.* In spirits. Presented by Dr. John Richardson.

### 11. Doryura.

Toes free, or very slightly webbed at the base, dilated towards the end, with 2 diverging series of plates beneath, last joint compressed, rather elongate, clawed. Thumb like the toes, with the clawed, compressed, terminal joints. Back with minute, uniform, granular scales. Tail depressed, rounded above, flattish beneath, with a sharp denticulated edge to the lower side, and a central series of larger scales beneath; sides of body and limbs simple.

* *Tail rather convex, slightly toothed on the sides.*

Bowring's Hemidactyle. Doryura Bowringii.

Grey-brown, with minute specks; tail with narrow pale cross bands, darker-edged in front; limbs and tail white-speckled; the back with small equal granules; tail 6-sided, covered withequal granules above, unarmed, with a narrow series of central plates beneath; chin-shields 4, subtrigonal, angles truncated or rounded, the two middle largest; tail lanceolate, convex above and slightly margined on the side.

*a, b.* In spirits. ——? Presented by Charles Bowring, Esq.

** *Tail depressed, closely toothed on the side.*

GARNOT'S DORYURE. Doryura Garnotii. Hemidactylus Garnotii, *Dum. et Bib. E. G.* iii. 358. H. lævis, *Gray, B. M.* 1836.

Back with very fine equal granules; chin-shields 4, forming a square, isolated from the labial plates; tail lanceolate, flat, tapering, distinctly toothed on the sides.

*a*. In spirits. South Sea Islands. From Mr. S. Stuchbury's collection.

12. PLATYURUS.

Toes half webbed, ovate, dilated towards the end, with 2 diverging rows of scales beneath, last joint free, compressed, produced, clawed. Thumb small, like the toes, and clawed. Sides and thighs with a membranaceous expansion. Tail flattened, lanceolate, unarmed, thin and fringed with spines on the edge. Males with the femoral and preanal pores continued.

The PLATYURE. Platyurus Schneiderianus. Stellio platyurus, *Schneid. Amph.* 30. *Mun. Acad.* 1812, *t.* 1, *f.* 3. *Merrem, Tent.* 41. *Weigm. Acad. Nat. Cur.* xvii. 288. Lacerta Schneideriana, *Shaw, Zool.* 41, 278. Hemidactylus marginatus, *Weigm. Amp.* 145. *Cuv. R. A.* ii. 584. *Dum. et Bib. E. G.* iii. 370, *t.* 50, *f.* 2.

Skin with very small equal granulations.

*a*, *b*. In spirits. Java. From the Leyden Museum.
*c*. In spirits. Borneo. Presented by Capt. Sir Edward Belcher, C.B., R.N.
*d*—*f*. In spirits. Philippines. From Mr. Cuming's collection.
*g*. In spirits, bleached. Presented by the College of Surgeons.

13. LEIURUS.

Toes webbed at the base, rather dilated towards the end, with 2 series of close rather diverging plates beneath, the last joint rather elongate, compressed, free, clawed. Tail cylindrical, tapering, covered with minute granulations, and with a series of large 6-sided shields beneath. Sides and limbs rounded. Back with minute equal granular scales. Preanal and femoral pores in an angular series (very small).

The BANDED LEIURUS. Leiurus ornatus.

Pale, with a horse-shoe shaped band on the nape, with a streak over the ears to the back of the eye; back with 3 and tail with 6 or 7 broad black bands, broader towards the black tip of the tail; back with series of sunken rather convex circular tubercles; tail slender, subangular, equally granular, unarmed, tapering.

*a*. In spirits. W. Africa. From Mr. Raddon's collection.

14. Crossurus, *Wagler.* Caudiverbera, part, *Laur.*

Fingers webbed. Toes half webbed, both dilated at the base, compressed at the end, with 2 rows of diverging scales beneath. Claws 5-5. Sides and limbs rounded, without any membranaceous expansion. Tail elongate, with a festooned fringe on each side, becoming wider at the end. Preanal and femoral pores ——— ?

The Crossurus. Crossurus Caudiverbera, *Wagler, Syst.* 141. *Merrem, Tent.* 40. Lacerta Caudiverbera, *Linn. S. N.* 359. From *Seba,* ii. *t.* 103. cop. *Shaw, Zool.* 678, *f.* 1. Caudiverbera Ægyptiaca, *Laur. Syn.* 43. Hemidactylus Sebæ, *Dum. et Bib. E. G.* iii. 373.

Dirty yellow, with stellate white spots; scales very finely granular, of the muzzle rather larger, scattered with small tubercles, surrounded with rather larger scales; the fingers webbed, the toes half webbed.

Inhab. ——— ?

Only known from Seba's figure.

*** Thumb with a free last joint, but clawless.*

15. Boltalia.

Toes free, ovate and dilated towards the end, with 2 series of straight narrow nearly transverse closely adpressed plate beneath, divided by a deep narrow groove, last joint compressed, free, rather exserted, clawed. Thumb dilated, and with a compressed last joint, like the toes, but clawless. Back with granular scales and a few scattered larger granules. Sides simple. Tail rather depressed, tapering, ringed, with a central series of broad scales beneath.

The Boltalia. Boltalia sublævis, *Gray, Z. M.* 58. Hemidactylus Coctei, *Dum. et Bib.* E. G. iii. 365.

Grey, yellow beneath; the back covered with small granular scales, with 2 or 3 interrupted series of rather larger ones on each side; scales of chin small, granular, of belly smooth, moderate-sized, of the back flat-topped, grey, with several black dots.

*a.* In spirits. India.

**** Thumb small, without any free last joint and clawless.*

16. Peripia.

Toes free, dilated for their whole length, with 2 series of diverging plates beneath, last joint compressed, exserted, clawed. Thumb short, truncated, dilated, and with plates beneath, without any compressed last joint or claw. Males with femoral pores, females poreless. Tail roundish. Back with equal granular scales.

Peron's Peripia. Peripia Peronii. Hemidactylus Peronii, *Dum. et Bib. E. G.* iii. 352, *t.* 30, *f.* 1. H. leiurus, *Gray.*

Tail depressed, enlarged at the base, roundish; chin with 6 shields; "pupil elliptical."

*a.* In spirits, discoloured. Isle of France?

Variegated Peripia. Peripia variegata. Hemidactylus variegatus, *Dum. et Bib. E. G.* iii. 353.

Chin with 4 shields; fulvous or brown, varied with black or chesnut; "pupil rounded."

*a.* In spirits. New Holland, Houtman's Abrollos.

17. Peropus, *Weigmann.*

Toes dilated at the base, with 2 series of diverging plates beneath, last joint compressed, exserted, clawed, the two middle hinder toes united at their base. Thumb dilated its whole length, clawless. Scales granular. Femoral pores ——? Tail depressed, lanceolate, tapering, rounded above, flat beneath, toothed on the edge.

The Peropus. Peropus mutilatus. Hemidactylus mutilatus, *Weigmann, Act. Acad. Nat. Cur.* xvii. 288. *Dum. et Bib. E. G.* iii. 354.

Grey, with obscure brown spots, white beneath; scales small, smooth, convex, many-sided, those of the middle of the back smaller; the chin-shields few.

Inhab. Manilla. Mus. Berlin.

II. *Toes more or less dilated, with a single series of transverse plates beneath.*

C. *Toes dilated, flat below, last joint (only) compressed, rather produced, often altogether wanting. The plates beneath the toes membranaceous, smooth.* Platydactylina.

a. *Claws 5-5, thickish, with the compressed last joint clawed.*

18. Theconyx. Platydactylus, part, *Dum. et Bib.*

Toes free, clawed, dilated the whole of their length, with entire transverse plates beneath, last joint compressed, short, inflexed, claws incurved. Thumb like the toes, clawed. Head pyramidical, triangular. Back grooved. Skin with very close conical granules. Preanal pores distinct.

The Seychelle Gecko. Theconyx Seychellensis. Platydactylus Seychellensis, *Dum. et Bib. E. G.* iii. 318, *t.* 28, *f.* 1.

Fulvous, with 2 series of chesnut spots on the middle of the back.

Inhab. Island of Seychelles. Mus. Paris, 2 specimens.

19. PENTADACTYLUS.

Toes free, clawed, narrow at the base, rather dilated towards the end, with a series of transverse plates beneath, last joint compressed, short, inflexed. Thumb like the toes, clawed. Femoral pores distinct, in 2 series. Preanal pores in several angular series in the males. Skin very finely granular. Sides of the body simple. Upper eyelid well developed.

DUVAUCEL'S PENTADACTYLUS. Pentadactylus Duvaucelii. Platydactylus Duvaucelii, *Dum. et Bib. E. G.* iii. 312.

Grey, back waved with brown; scales very minute.

Inhab. India, Calcutta. Mus. Paris.

20. PLATYDACTYLUS. Platydactylus, part, *Cuv., Dum. et Bib.*

Toes webbed, dilated towards the end, with entire scales beneath, the last joint short, compressed, inflexed, clawed. Thumb like the toes, clawed. Sides of the body, head and limbs with a membranaceous expansion. Scales very minute, granular. Tail ——— ?

LEACH'S GECKO. Platydactylus Leachianus, *Cuv. R. A.* ii. 54. *Dum. et Bib. E. G.* iii. 315, *t.* 28, *f.* 6, foot.

Greyish, (bleached ?)

Inhab. ——— ? Mus. Paris, an imperfect specimen, sent by Dr. Leach.

b. *Claws* 4-4. *The thumb without any last compressed joint, clawless.*

21. GECKO, *Linn.* Platydactylus, *Fitz.* Plat. sect. *Wagler, ? Weigm.* and *Dum. et Bib.*

Toes free, unequal, dilated towards the end, with a series of broad transverse membranaceous plates beneath, the last joint short, compressed, inflexed, clawed. Thumb dilated, without the compressed last joint, clawless. Eyelid membranaceous. Back granular, with scattered larger tubercles. Femoral and preanal pores distinct in the males.

* *Back largely tubercular.*

The GECKO. Gecko verus, *Merrem.* G. teres, and G. verticillatus, *Laur. Syn.* 44. Lacerta Gecko, *Linn. S. N.* i. 365. *Schneid.* ii. 12. L. guttata, *Herm. Obs.* 156. *Daud. Rept.* iv. 122, *t.* 49. *Cuv. Guérin, Icon. t.* 13. *Dum. et Bib. E. G.* iii. 328, *t.* 28, *f.* 4. G. annulatus, *Kuhl, Beitr.* 132.

Reddish grey, white-spotted; scales square, flat, smooth, with 12 distant rows of large tubercles, with a series of hexagonal larger gular shields in front, under the under labials.

*a*, *b*. Adult, in spirits. India. Presented by Capt. Stafford.
*c*. Adult, in spirits. India.
*d*. Adult, in spirits. Tenassem coast. Presented by Dr. Packman.
*e*. Adult, in spirits. China. Presented by J. Reeves, Esq.
*f*. Adult, in spirits. Port Essington, N. Holland. From Mr. Gilbert's collection.
*g*. Half grown. India.
*h*. Young, discoloured, no tail. India.
*i*. Young. India. Presented by Thomas Bell, Esq.

Reeves's Gecko. Gecko Reevesii, *Gray*, *Griffith*, *A. K.* ix. 48.

Olive grey; scales with series of moderate tubercles, and with a series of 6 hexangular larger gular shields in front, under the under labial; preanal pores in an angular series; tail ———?

*a*. Adult, in spirits. China. Presented by J. Reeves, Esq.

** *Back with small tubercles.*

The Japan Gecko. Gecko Chinensis, *Gray*, *B. M.* 1837. *Zool. M.* 57. Platydactylus Japonicus, "*Schlegel*, *Mus. Leyd.*" *Dum. et Bib. E. G.* iii. 337. P. Jamori, *Schlegel*, *Mus. Leyd.* Hemidactylus nanus, *Cantor*, *Ann. N. H.* 1842, 27.

Greyish, brown-shaded; skin with very fine rounded grains, scattered with other rather larger grains; chin with 6 or 7 6-sided plates.

*a*. In spirits. Japan. From the Leyden Museum.
*b*. In spirits. China. Presented by J. Reeves, Esq.
*c*. In spirits. China, Chusan. Presented by the India Company, from Dr. Cantor's collection.
H. nanus, *Cantor*.

The Amboyna Gecko. Gecko monarchus. Platydactylus monarchus, *Schlegel*, *Mus. Leyd. Dum. et Bib. E. G.* iii. 335.

Back covered with numerous conical tubercles, scattered with very small flat polygonal scales; brown, back with 2 longitudinal series of 6 or 7 large black spots; beneath white; chin with 2 oblong plates; male with the femoral pores in a curved line on each side; chin-shields 2, elongate, narrow, with 2 or 3 rows of small hexagonal ones on each side.

*a*. Half grown, in spirits. Head and nape brown-spotted, female preanal pores none. Amboyna. From Mus. Leyden.
*b*. Adult, in spirits. Head and nape brown-spotted, preanal pores large, in an angular series, extending on the upper part of the thigh, rather pinched up in the centre. Philippines. From Mr. Cuming's collection.
*c*—*e*. In spirits. Paler, head spotted, nape with a narrow irregular horse-shoe-shaped band, preanal and femoral pores large on the side, angular in the middle. Borneo. Presented by Capt. Sir Edward Belcher, C.B., R.N.

Dr. A. Smith's Gecko. Gecko Smithii, *Gray, Zool. Mis.* 54.
Black, with minute white-tipped tubercles; back with cross bands of white spots, the two front bands lunate; tail with 8 white spots, the front small, next round, the rest oblong, longer towards the tip, last spot subapical; beneath grey, brown-marbled; head grey, occiput with 3 diverging, and the sides of the throat with 2 black streaks.
Inhab. Prince of Wales' Island. Mus. Fort Pitt, Chatham.

The Streaked Gecko. Gecko vittatus, *Houtt. Act. Uliss.* ix. 325, *t.* 2. *Latr. Rept.* ii. 61. *Brong. Bull. Soc. Phil.* i. *t.* 6, *f.* 3. *Daud. Rept.* iv. 136. *Gmel. S. N.* i. 1067. *Cuv. R. A.* ii. 53. *Dum. et Bib. E. G.* iii. 331. Stellio bifurcifer, *Schneid. Amph.* ii. 22. L. zeylonica, *Nau.* L. striata, *Shaw, N. Misc. t.* 88.
Fulvous, with a longitudinal white streak, forked in front; back with very numerous very granular small rounded tubercles.
*a.* Adult, in spirits. Amboina. From Mr. Brandt's collection.
*b.* Young, in spirits. Cape of Good Hope. Presented by the College of Surgeons.
Lacerta unistriata, *Cat. Mus. Col. Surg. n.* 209.

The Double-streaked Gecko. Gecko bivittatus. Platydactylus bivittatus, *Dum. et Bib. E. G.* iii. 334.
Violet or brown, with 2 dorsal streaks; back covered with small smooth flat scales, scattered with very minute tubercles.
Inhab. New Guinea. Mus. Paris, 2 specimens. Perhaps a variety of the former.

22. Amydosaurus. Platydactylus, part, *Dum. et Bib.*

Toes free, very unequal, narrow at the base, dilated towards the end, with 5 or 6 angular plates beneath the base, transverse ones at the end, the last joint short, compressed, clawless. Thumb with the last compressed joint clawless. Scales finely granular, uniform. Sides simple. Tail cylindrical, ——— ? when reproduced fusiform, covered with square scales. Femoral pores none.

The Sombre Gecko. Amydosaurus lugubris. Platydactylus lugubris, *Dum. et Bib. E. G.* iii. 304.
White, black-spotted; lower rostral triangular; the front chin-scales polygonal, the rest granular.
Inhab. Otaheite. Mus. Paris.

23. Gehyra, *Gray.* Peropus, part, *Weigmann.*

Toes free, depressed, oval, much dilated towards the end, with transverse entire scales beneath, last joint compressed, elongated. Thumb dilated, without the elongated compressed last joint, clawless. Back with small granular scales. Males with preanal pores, females poreless. Tail round, tapering, slightly ringed, covered with equal granular scales, with a series of 6-sided scales beneath.

The Oceanic Gehyra. Gehyra oceanica, *Gray*, *Z. M.* 57. G. gularis, *Gray*, *B. M.* Gecko oceanicus, *Lesson*, *Voy. Coq. t.* 2, *f.* 3, bad. Hemidactylus Oualensis, *Dum. et Bib. E. G.* iii. 350, *t.* 28, *f.* 7 ?

Chin with a cross row of 3-3 shields, the two middle lowest narrow, oblong, elongate, 4-sided; lower labial 8-8, and some small square ones near the angle of the eye, the 5-5 front subequal.

*a.* Adult, in spirits. Bleached. Islands in the Pacific.

The Swan River Gehyra. Gehyra australis, *Gray*, *Zool. Erebus and Terror*, *t.*

Purplish grey; chin and beneath white; scales brown-punctured; lower labial shields 6-6, the 2 front subequal, 4-sided; the chin-shields 3-3, the middle largest, oblong, elongate, 4-sided, rather wider in front; preanal pores in an angular series.

*a.* Adult, in spirits. Swan River. From Mr. Gilbert's collection.
*b.* In spirits. The chin-shields 2-2, the lateral ones small, with some small 6-sided on their sides. Port Essington. From Mr. Gilbert's collection.

### 24. Luperosaurus.

Toes webbed at the base, dilated towards the end, with rather curved entire transverse folds beneath, last joint short, compressed, with a sharp incurved claw. Thumb with similar but rather less lunated cross plates, without any last joint or claw, but with a flat scale in its place, above. Sides of the chin with a very indistinct fold. Legs rather depressed, with a slight fold of the skin on the lower part of the side. The 2 lower rostrals small. Tail slender, tapering, rather depressed, subannulated, with a slight depressed margin, rather wider at the rings. Preanal and femoral pores in a continued series.

The Luperosaure. Luperosaurus Cumingii.

Purplish brown, black-spotted; head marbled, with 2 oblique brown lines on the temple; chin and beneath white; belly flat, with narrow black transverse lines.

*a*, *b*. Adult, in spirits. Philippine Islands. From Mr. Cuming's collection.

### 25. Ptychozoon, *Kuhl*, *Fitz.*, *Wagler*, *Weigm.* (male). Pteropleura, *Gray*, (female).

Toes webbed to the end, last joint short, compressed, clawed. Thumb dilated, without the compressed last joint, clawless. Sides of head, body, limbs and tail with broad scaly membranaceous expansions, that of the tail scalloped. Male with distinct femoral pores, (wanting in the females). Scales of the back smooth, flat, placed side by side, scattered with larger tubercles on the sides.

"Living on trees, uses the expansions on its sides as a parachute, like the dragons," (*Boie*). Not aquatic, as believed by Cuvier, when referring to the expansions of *Gecko fimbriatus*.

The Fringed Tree Gecko. Ptychozoon homalocephala, *Kuhl*, *Isis*, 1822, 476. *Fitz.*, *Verz.* 47. *Weigm. H. M.* 20. Lacerta homalocephala, *Creveldt*, *Naturf. Berl.* iii. 266, *t.* 8, (male, tail imperfect). *Tilesius*, *Acad. Petersb.* vii. *t.* 10. *Cuv. R. A.* ii. 54. *Dum. et Bib. E. G.* iii. 339, *t.* 28, *f.* 6, *t.* 29, *f.* 1, 2. Pteropleura Horsfieldii, *Gray*, *Phil. Mag.* ii. 56. *Zool. Journ.* 1827, 221, (female, tail imperfect).

*a*. In spirits. Tail imperfect, with a simple edge. Singapore. Presented by Gen. Thomas Hardwicke.

*b*. In spirits. Tail half reproduced. Java. From the Leyden Museum.

*c*. In spirits. Tail complete, scalloped on each side. Java. From the Leyden Museum.

*d*. Dry. Tail complete. Java. Presented by Dr. Thomas Horsfield.

c. *Claws* 2-2. *All but the two middle toes without any terminal joint.*

26. Tarentola, *Gray*. Ascalobates, *Fitz.*, *Bonap.* (not *Licht.*) Platydactylus, *Wagler*, *Weigmann*, *Dum. et Bib.*

Toes free, subequal, the third and fourth with a compressed last joint, clawed, rest without the compressed last joint, clawless. Thumb clawless. Eyelid with a bony or cartilaginous plate. The back with granules and interrupted larger scales. Sides of body rounded. Femoral and preanal pores none. Tail rather depressed, obtusely angular above, with cross rings of spines. Chin-shields elongate, produced behind.

* *Head convex behind. Back with groups of tubercles.*

The Tarentola. Tarentola Mauritanica. Lacerta facetanus, *Aldrov. Q. O.* i. 654. L. Tarentula, *Mus. Worm.* 314. *Jonst. H. N.* i. *t.* 77. L. Mauritanica, *Linn. S. N.* 361. *Bosc. Dict. H. N.* xii. 513. *Bonap. Fauna Ital. t.* Gecko muricatus, *Laur. Rept.* 44. G. fascicularis, *Daud. R.* iv. 144. *Wagler*, *Sys.* 142. *Gray*, *Griffith*, *A. K.* ix. 143. G. Stellio, *Merrem*, *Tent.* 13. Le Geckotte, *Lacep. Q. O.* i. 420. *Shaw*, *Zool.* iii. 267. Platydactylus muralis, *Dum. et Bib. E. G.* iii. 319.

Pale yellowish; back with cross bands of oval strongly keeled tubercles, surrounded with smaller tubercles or scales at the base.

*a*—*d*. Adult and young, in spirits. Egypt. Presented by J. Burton, jun. Esq.

*e*. Half grown, in spirits. Tripoli. Presented by J. Ritchie, Esq.

*f, g.* Adult, in spirits. Shores of the Mediterranean. Presented by J. Miller, Esq.
*h, i.* Young, in spirits. Sicily. Presented by Thomas Bell, Esq.

** *Head convex behind. Back with isolated tubercles.*

The Egyptian Tarentola. Tarentola Ægyptiaca. Platydactylus Ægyptiacus, *Cuv. R. A.* ii. 53. *Dum. et Bib. E. G.* iii. 323, *t.* 28, *f.* 3. Gecko annulaire, *Geoff. Rept. Egypt. t.* 5, *f.* 67. G. Savignii, *Audouin, Rept. Egypt. Supp. t.* 1, *f.* 1.

Pale yellowish; young with 2 white spots on each side of the back over the shoulder, surrounded with black in front; back with longitudinal series of small oblong convex tubercles, sides with rather larger isolated conical tubercles; front of the ear toothed.
*a—c.* Adult, in spirits. Chin-shields 4-4, 6-sided, subequal. Egypt. Presented by A. Christy, Esq.
*d—g.* Adult and young, in spirits. Chin-shields 3-3, oblong, elongate, 4-sided, gradually smaller. Egypt. Presented by Sir J. Gardner Wilkinson.

Laland's Tarentola. Tarentola Delalandii. Platydactylus Delalandii, *Dum. et Bib. E. G.* iii. 324.

Pale brown, with irregular brown cross bands, generally edged with white behind; tail black ringed; back with simple oval very slightly keeled tubercles, side with conical ones; front edge of the ear not toothed; lower rostral shield large; chin-shields 3-3, oblong, 4-sided, elongate, gradually smaller.
*a, b.* Young and adult, in spirits. Madeira. Presented by P. B. Webb, Esq.
*d—f.* Young and adult, in spirits. West coast of Africa, Niger.
*g.* Young, in spirits. Madeira. Presented by P. B. Webb, Esq.
*h.* Adult, in spirits. ———? Presented by the Earl of Derby.

The American Tarentola. Tarentola Americana. Platydactylus Americanus, *Gray, Griffith, A. K.* ix. 44. P. Mibbertii, *Dum. et Bib. E. G.* iii. 325.

Back and sides with oval simply convex equal tubercles; inner edge of the ear toothed; rings on the tail and a streak behind the eye, black.

Inhab. N. America. Mus. Paris.

The Bornean Tarentola. Tarentola Borneensis.

Purplish grey; the chin and beneath white; sides of the neck pale, grey lined; back with many series of round tubercles, with a subposterior rather raised apex, each surrounded by a series of granules rather larger than the others on the back, those of the side rather more conical; granules of the head moderate, flat; chin-shields 3-3, oblong, 4-sided, elongate, rapidly smaller; ear not denticulated in front.
*a—d.* In spirits. Borneo. Presented by Capt. Sir Edw. Belcher, C.B., R.N.

*** *Head flattened, edged with a cross rib behind.* Clypeosaurus.

The Shielded Tarentola. Tarentola clypeata, *Gray, Zool. Misc.* 57.

Head flattened and circumscribed by a cross rib behind, covered with larger convex scales; back granular, with cross ridges of tubercles; greyish in spirits; limbs and tail slender.

Inhab. ——— ? Museum of the Andersonian Institution, Glasgow.

d. *Claws none. Toes slender at the base, without any compressed free last joint.*

27. Phelsuma, *Gray.* Pachydactylus (*a.*), *Weigmann.*

Toes free, rather elongate; base rather slender, apex ovate, dilated, without any compressed last joint, clawless. Thumb very small, slender, rudimentary, with plates beneath. Back with granular scales. Preanal pores in an angular series, extending more or less along the thighs.

Lacepede's Phelsuma. Phelsuma Cepedianus. Gecko Cepedianus, *Peron, Mus. Par. Cuv. R. A.* ii. 46, *t.* 5, *f.* 5. *Merrem, Tent.* 43. *I. Geoff. Mag. Zool. t.* 3 (not good). *Dum. et Bib. E. G.* iii. 301, *t.* 28, *f.* 2. Phelsuma ornatum, *Gray, Griffith, A. K.* ix. 49. *King, Voy.* ii. *Dum. et Bib. E. G.* iii. 297.

Muzzle short, rather depressed; violet brown, sometimes red-spotted; with 6 large gular plates in the front row, the two middle much the largest, with 2 rather large plates behind them; lower labial 6-1-6, the central very large; preanal pores extending half the length of the thighs.

*a.* In spirits. Isle of France. Presented by Capt. P. P. King, R.N.

The Madagascar Phelsuma. Phelsuma Madagascariensis, *Gray, Griffith, A. K.* ix. 47.

Muzzle short, rather depressed; the chin with 6 large gular shields in the front row, the two middle rather the largest, with 2 very small 6-sided plates behind them; lower labial 7-1-7, the central rather large.

*a.* Adult, in spirits. Madagascar. Presented by J. E. Gray, Esq.

The Lined Phelsuma. Phelsuma lineatum, *Gray, Z. M.* 57. Gecko inunguis, *Cuv. R. A.* i. 46, *t.* 5, *f.* 4. *Schinz, Rept. t.* 15, *f.* 1. Platydactylus ocellatus, var. *Dum. et Bib. E. G.* iii. 298. G. Madagascarensis, jun. *Gray, Griffith, A. K.* ix. 49.

Femoral and preanal pores forming an angular line; brown in spirits, with a black upper and darker lower edged white streak on each side; beneath whitish; scales of back ovate, tubercular,

keeled; chin with 8 large gular shields in the front row, the two middle rather the largest; scales in front of the throat larger than those behind; the lower labial shields 5-1-5, with 3 or 4 additional small plates at the back.

*a*. Adult, in spirits. Femoral pores distinct. Madagascar. Presented by J. E. Gray, Esq.

*b*. Adult, in spirits. Preanal pores in an angular line. Madagascar. Presented by J. E. Gray, Esq.
Phelsuma trilineatum, *Gray, Zool. Misc.* 57.

28. Pachydactylus, part, *Weigmann.* Cantinia, *Gray, MSS.*

Toes free, base compressed, slender, middle part with sometimes 2 or 4 double scales beneath, apex dilated, suborbicular, with some transverse plates beneath, and without any compressed last joint, clawless. Thumbs similar in form and size to the toes. Back with small granular scales.

* *Toes short. Back uniformly granular.* Pachydactylus.

The Eyed Gecko. Pachydactylus ocellatus. Gecko ocellatus, *Oppel, MSS. Cuv. R. A.* ii. 46, *t.* 5, *f.* 4. *Merrem, Tent.* 43. *Dum. et Bib.* iii. 298. *Gray, Griffith, A. K.* ix. 47. Pachydactylus Bergii, *Weigm. H. M.* Cantinia Ascensionis, *Gray, MSS. B. M.* 1837.

Brown, white-spotted, with a black streak behind the eyes; beneath and edge of eyelid white; throat black-speckled; labial scales brown, pale-edged, labial shields brown and white, lower 4-1-4, large; scales minute, uniform.

*a*—*c*. In spirits. Island of Ascension. Presented by the Admiralty, from H.M.S. Chanticleer.

*d*—*f*. In spirits. Cape of Good Hope. Presented by Dr. John Lee.

** *Toes short. Back granular, with minute tubercles.*

The Spotted Pachydactyle. Pachydactylus maculatus.

Olive, with a series of oblong white-edged green spots on each side of the back, and with an irregular broad converging white-edged green streak on each side of the crown and nape; the sides green-marbled; back with small scattered subconic tubercles, about twice the size of the scales; toes moderate.

*a*. In spirits. S. Africa. Presented by the Saffron Walden Nat. Hist. Soc.

**** Toes elongate, slender. Back and tail with cross series of large tubercles.* Cantinia.

The ELEGANT PACHYDACTYLE. Pachydactylus elegans.

Pale brown, brown and white dotted; tail brown-banded; back and tail with cross series of trihedral tubercles.

*a.* In spirits. S. Africa. Presented by Dr. John Lee.

29. SPHÆRODACTYLUS, *Cuv., Gray, Weigmann, Wagler.*

Toes and thumbs free, slender, subcylindrical at base, with a small, entire, circular, terminal disk, convex beneath, clawless, without a terminal compressed joint. Scales of the back equal, granular or rhombic. "Pupil round." Eyelid circular. Tail with a central series of shields. Femoral nor preanal pores none.

** Back and tail with small scales.*

The BANDED SPHÆRODACTYLE. Sphærodactylus sputator, *Cuv. R. A.* ii. 57. *Wagler, Syst.* 143. *Dum. et Bib. E. G.* iii. 402. Lacerta sputator, *Sparm. N. Act. Stockh.* v. 164, *t.* 4. *f.* 1—3. *Lacep. Q. O.* i. 409, *t.* 28, *f.* 1, 2. *Schn. Daud. R.* iv. 99. *Bosc.*

Black and yellow, cross banded; muzzle pointed; head with a white streak on each side; scales equal.

*a—c.* In spirits. S. America. From Mr. Leadbeater's collection.

The LINED SPHÆRODACTYLE. Sphærodactylus punctatissimus, *Dum. et Bib. E. G.* iii. 405.

Reddish, speckled with white; throat streaked; scales equal.

*a.* In spirits. Head white-lined. Martinique. From the Paris Museum.

The BLACK-HEADED SPHÆRODACTYLE. Sphærodactylus fantasticus, *Cuv. Mus. Par. Dum. et Bib. E. G.* iii. 406, *t.* 33, *f.* 2.

Fulvous; head black, vermiculated with white; scales of the middle of the back smaller than those of the sides.

*a.* In spirits. S. America. Presented by Edw. Laforest, Esq.

The BLACK-DOTTED SPHÆRODACTYLE. Sphærodactylus nigropunctatus.

Reddish grey, with very numerous minute black specks.

*a.* In spirits. S. America. From Mr. Leadbeater's collection.

*** Back and tail with cross series of rhombic keeled scales.*

RICHARDSON'S SPHÆRODACTYLE. Sphærodactylus Richardsonii.

Head with a black-edged white streak on each side, from the nostril just above the eye, with a streak from the back angle of the eye to the ear, and another oblique one from each ear to the

throat, a streak on the middle of the chin, and a diverging one on each side from the angle of the gape; neck with 2, back with 5, pale black-edged cross bands; the tail with 4 or 5 broader black-edged pale rings; limbs black-ringed.

*a*. In spirits. America. Presented by Dr. Richardson.

D. *Toes and thumb slightly dilated at the base, the two or three last joints compressed, angularly bent, clawed, the scales beneath the toes membranaceous, transverse, smooth.* Goniodactylina.

a. *Toes rather dilated at the base, end cylindrical. Tail round.*

### 30. Naultinus, *Gray.*

Toes free, base rather dilated, thick, rather compressed, end thinner, rather compressed, arched, clawed. Thumb similar, but its base shorter, clawed. Tail cylindrical, tapering, covered with granular scales. Body with a slight fold along each side beneath. Males? with 2 or 3 spines on each side of the base of the tail, and 3 or more transverse series of preanal pores, forming 1 and sometimes two patches.

* *Brown.*

The Pacific Naultinus. Naultinus pacificus, *Gray, Z. M.* 58. *Dieffenb. N. Z.* ii. 203. *Gray, Zool. Erebus and Terror, Rept. t.* Gecko pacificus, *Gray, Brit. Mus.* Platydactylus Duvaucelii, *Dum. et Bib. E. G.* iii. 312?

Pale brown, with irregular dark brown cross bands and a dark streak on each side; front lower labial shield very large; the chin granular; scales uniformly granular, rather larger before and behind the vent.

*a*. In spirits, rather bleached. The front gular scale like the rest. Islands of the Pacific. From Mr. Stuchbury's collection.

*b*. In spirits. The front gular scales large, 6-sided. New Zealand, Dr. Dieffenbach. Presented by R. Owen, Esq.

*c*, *d*. In spirits. Front gular scales rather larger. New Zealand. Antarctic Expedition. Presented by the Admiralty.

** *Green. Preanal pores in a line.*

The Kakariki. Naultinus elegans, *Gray, Zool. Misc.* 72.—*Dieffenb. N. Z.* ii. 203. *Gray, Zool. Erebus and Terror, Rept. t.*

Green, rather paler beneath; back sometimes varied with dark edged white spots; lower lips white; toes moderate; tail with a transverse series of compressed scales at each side of the base.

*a* In spirits. Green, rather paler beneath; a streak along the under lip, the ears, 2 arched stripes on the top of the head, irregular shaped spots on each side of the back and hind legs, an interrupted streak along each side of the body and tail, white, with a narrow black edge. New Zealand, Auckland; Dr. Dieffenbach. Presented by Richard Owen, Esq.

*b*. In spirits. Green, lower lip white. New Zealand. Presented by W. E. Cormack, Esq.

*c*. Young, in spirits. Purplish (discoloured), pale beneath, with a white streak on each side of the crown. New Zealand, Bay of Islands. Antarctic Expedition. Presented by the Admiralty.

The Long-toed Kakariki. Naultinus Grayii, *Bell, Zool. Beagle, Rept.* 27, *t.* 14, *f.* 2.

Green, rather paler beneath, sometimes varied with white spots; toes elongate; tail with 4 ovate convex scales, forming an arched series on each side of the base.

*a*. Green, 3 ovate white spots on each side of the back. New Zealand. From Mr. Egerley's collection.

*b*, *c*. Green. New Zealand. From Mr. Egerley's collection.

*d*. Pale green. New Zealand. Antarctic Expedition. Presented by the Admiralty.

**** Green. Preanal pores in larger patches.*

The Black-dotted Karakiki. Naultinus punctatus, *Gray, Dieffenb. N. Z.* iii. 204. *Zool. Erebus and Terror, Rept. t.*

Dark green, with very small scattered black specks, the size of a granule; beneath yellow green; preanal pores in a triangular patch, with 2 series of pores under each thigh.

*a*. In spirits. New Zealand. Presented by Dr. J. Richardson.

31. Eublepharis, *Gray.*

Toes subcylindrical, rather tapering, base thickened below, with distinct cross plates, end rather compressed, slightly arched, rounded beneath, with narrow transverse plates. Thumb like the toes, but shorter, clawed. Tail cylindrical, covered with square flat scales, rather tapering, ringed, with rings or cross bands of tubercles above. Preanal pores in an angular line, in the centre of a scale. Head depressed. Labial shields broad, low. Gular scales 6-sided, larger in front. Edge of the eyelid reflexed, expanded. Back covered with large ovate convex tubercles, belly with 6-sided scales.

Hardwick's Eublepharis. Eublepharis Hardwickii, *Gray, Phil. Mag.* 1827. *Zool. Journ.* iii. 223. *Griffith, A. K.* ix. 49. *Illust. Ind. Zool. t. cop. Hardwicke, Icon. ined. B. Mus. t.*

Brown, with a white horse-shoe shaped band on the nape from the upper lip; back, rump and tail with a broad transverse white band; beneath whitish; tail with an oblique series of 3 conical spines on each side of its base; tubercles of the crown and scales of the throat and chest smaller.

*a*. In spirits. Penang, Chittagong. Presented by Gen. Thomas Hardwicke.

32. Homonota. Gymnodactylus, part, *Dum. et Bib.*

Toes subcylindrical, rather tapering, with simple cross bands beneath, base very slightly swollen below. Palms and soles granular. Thumb like the toe, but rather shorter. Tail elongate, round, tapering, covered with rather elongate scales, with a rather larger central series beneath, when reproduced fusiform. Scales of the back hexangular, smooth, scarcely imbricate, of the under side 6-sided. Lower labial shields large, few. Chin-scales granular, with a few rather larger 6-sided plates in front. Femoral and preanal pores none.

Guidichaud's Scaled Gecko. Homonota Guidichaudi. Gymnodactylus Guidichaudi, *Dum. et Bib. E. G.* iii. 413. *Bell, Zool. Beagle*, 26, *t.* 16, *f.* 1.

Pale brown, darker varied; scales minutely black-dotted; the lower labial shields 5-1-5, the front larger, the two hinder on each side smaller; scales of the throat many-sided; chin with a moderately dilated shield.

*a—c*. In spirits. Chili. Presented by Charles Darwin, Esq.
*d*. In spirits. America. Presented by Thomas Bell, Esq., 1837.

33. Pristurus, *Ruppell.* Gymnodactylus, part, *Dum. et Bib.*

Toes slender, rather rounded, slightly swollen below at the base, with distinct cross plates. Back and tail with a small denticulated crest. Scales small, granular. Femoral and preanal pores none. Tail compressed, denticulated above. Pupil circular?

Ruppell's Pristurus. Pristurus flavipunctatus, *Rupp. N. W. Fauna Abys. t.* 6, *f.* 3. *Dum. et Bib. E. G.* iii. 417.
Green, yellow-dotted.
Inhab. Abyssinia. Mus. Frankfort.

b. *Toes elongated, slender, compressed, versatile, the joints bent at right angles to one another.*

34. Goniodactylus, part, *Kuhl.*

Toes very slender, compressed, elongate, versatile, under side of the base rather thickened, with distinct cross plates. Scales of the back granular, uniform. Sides rounded. Femoral and pre-

anal pores none. Tail round, tapering, unarmed, granular, subannulated, uniform, with a series of rather larger scales beneath. Pupil round. Eyelid complete, circular.

Boie's Angular-toed Lizard. Goniodactylus Timorensis. Gymnodactylus Timorensis, *Dum. et Bib. E. G.* iii. 411. Cyrtodactylus Boiëi, *Gray, Zool. Misc.* 58.

Pale brown, marbled; scales minute, of head rather larger, of under side 6-sided; lower labial plates 2-1-2; lower rostral plate very large; gular plates 2 6-sided shields, the rest granular.

*a—c.* In spirits. Discoloured, blackish. India. Presented by Gen. Thomas Hardwicke.

*d.* In spirits. Wants tail. Timor? Presented by T. Bell, Esq.

The Australian Angular-toed Lizard. Goniodactylus australis, *Gray, Zool. Erebus and Terror, Rept. t.*

Pale brown, darker marbled; scales very minute, of head rather larger; lower labial plates 10-1-10; the lower rostral small, trigonal, the other plates very gradually smaller; chin granular; those in the centre of the front rather larger, 6-sided; tail ——?

*a.* In spirits, discoloured. Australia. From Mr. Buchanan's collection.

The White-throated Angular-toed Lizard. Goniodactylus albogularis. Gymnodactylus albogularis, *Dum. et Bib. E. G.* iii. 415.

Pale brown, brown-spotted; scales small; lower labial plates 4-1-4, the hinder on each side very small; the lower rostral shield large; chin-shields smaller, in a cross line.

*a.* In spirits. Tail slender, throat whitish. S. America. From Mr. Leadbeater's collection.

*b.* In spirits. Tail thick, throat greyish. From Mr. Leadbeater's collection.

The Eyed Angular-toed Lizard. Goniodactylus? ocellatus. Cyrtodactylus ocellatus, *Gray, Z. M.* 51.

Head, neck and throat pale brown, with large irregular brown marblings; back brown, with 2 large white-eyed black spots on each side, behind the fore legs; legs and tail pale brown; base of the toes rather thick, end compressed, thin; labial plates $\frac{1}{1}$-$\frac{1}{1}$; rostral large, broad; tail tapering, subcylindrical, with small scales above, irregular bands beneath.

Inhab. Tobago; G. Buchanan. Mus. Zool. Soc. No. 117.

The Algerine Angular-toed Lizard. Goniodactylus? Mauritanicus. Gymnodactylus Mauritanicus, *Dum. et Bib. E. G.* iii. 414.

Scales square; tail round; lower labial plates 10; scales of the throat triangular; chin with a lozenge-shaped shield, followed by 2 smaller triangular shields; tail ——?

Inhab. Algiers. Mus. Paris.

35. CYRTODACTYLUS, *Gray*. Goniodactylus, part, *Kuhl*. Gynodactylus, part, *Dum. et Bib.*

Toes very slender, much compressed, elongate, versatile, under side of the base rather thickened, with distinct cross plates. The thumb like the toes. Back granular with series of angular tubercles. Belly with small 6-sided scales. Tail cylindrical, tapering, ringed with cross series of tubercles; sides slightly denticulated beneath. Males with 2 parallel longitudinal rows of preanal pores sunk in a groove in front of the vent. Chin granular, with 2 rhombic chin-shields. Lower labial plates numerous.

* *Tail granular beneath. Preanal pores in a sunken longitudinal slit.* Gymnodactylus.

The MARBLED CYRTODACTYLE. Cyrtodactylus marmoratus, *Gray, Griffith, A. K.* ix. 51. Goniodactylus marmoratus, *Kuhl, MSS. Schlegel, Icon. t. Dum. et Bib. E. G.* iii. 426.

Brownish, with irregular black cross bands, and 4 series of darker spots; back granular, with longitudinal series of round rather conical tubercles; labial plates 10-1-10, the hinder small; preanal pores in a deep groove, surrounded with rather produced scales; tail brown, ringed with cross rows of small angular tubercles, with minute granular scales beneath and 2 conical tubercles on each side of its base.

*a*, *b*. Half grown, in spirits. Tail reproduced, covered with square scales. Java. From the Leyden Museum.

*c*—*f*. Adult, half grown and young, in spirits. Tail with rings of tubercles. Philippine Islands. From Mr. Cuming's collection.

** *Tail with a series of broad 6-sided scales below. Preanal pores not sunken.* Cyrtodactylus.

The BEAUTIFUL CYRTODACTYLE. Cyrtodactylus pulchellus, *Gray, Zool. Jour.* ii. 224. *Illustr. Ind. Zool. t.* Gymnodactylus pulchellus, *Dum. et Bib. E. G.* iii. 423, *t.* 33, *f.* 7. *Wagler, Syn.* 144.

Yellowish, with brown cross bands, the front one lunate; scales of back flat, with scattered large 3-sided tubercles; preanal pores in two nearly parallel lines, not sunken; tail cylindrical, with a series of broad 6-sided plates below, base with an oblique series of 3 conical spines on each side; chin-shields 2-2, and some smaller ones behind, under the labials; femoral pores distinct.

*a*, *b*. Adult and half grown, in spirits. Singapore. Presented by General Hardwicke.

### 36. Heteronota.

Toes very slender, much compressed, elongate, versatile, under side of the base rather thickened, with distinct cross plaits. The thumb like the toes. Back granular, with series of angular tubercles. Belly with small keeled ovate scales. Tail cylindrical, tapering, ringed with cross series of tubercles, underside of the tail granular, with a central series of ovate convex tubercular scales. Male with the small preanal pores in an arched series. Lower rostral shield very large, with 2 chin-shields behind.

* *Tubercles on back in distant series.*

The Bornean Heteronote. Heteronota Kendallii.

Brown, with darker minutely white-dotted cross bands; back minutely granular, with longitudinal series of distant (whitish) angular conical tubercles; tail cylindrical, with distant cross rings of conical tubercles; lower labials 10-1-10, the five hinder on each side small, round; chin-shields large, with a half oblong chin-shield on each side of the hinder edge, with some small shields behind, the rest granular.

*a.* In spirits. Male? Tail with whorls of small tubercles, and with a continued series of convex tubercles beneath, the chin-shields very small, lower rostral broad behind. Borneo. Presented by Capt. Sir Edw. Belcher, C.B., R.N.

*b.* In spirits. Female? Tail with rings of angular acute tubercles, and an interrupted series of similar tubercles beneath; chin-shields 2, large, lower rostral narrow behind. Borneo. Presented by Capt. Sir Edw. Belcher, C.B., R.N.

** *Tubercles on the back in close series.*

The Australian Heteronote. Heteronota Binoei, *Gray, Zool. Erebus and Terror, Rept. t.*

Brown, with black cross streaks; under side very closely and minutely black-dotted; back with close longitudinal and transverse series of roundish keeled angular-backed tubercles; the head with roundish tubercles; lower labials 5-1-5; lower rostral moderate, triangular behind, with 2 lozenge-shaped gular shields; toes moderate, slender; tail ——? preanal pores in an angular series.

*a.* In spirits, wants tail. Houtman's Abrollos. From Mr. Gilbert's collection.

### 37. Cubina. Gymnodactylus, part, *Dum. et Bib.*

Toes slender, compressed, elongate, versatile, under side of the base rather thickened, with distinct transverse plates beneath. Thumb like the toes. Back granular, with series of angular tubercles. Belly with 6-sided smooth scales. Tail round (with

rings of angular tubercles?), when reproduced covered with square subequal scales. Male and female without any preanal or femoral pores.

The Banded Cubina. Cubina fasciata. Gymnodactylus fasciatus, *Dum. et Bib. E. G.* iii. 420.

Back granular, with scattered triangular tubercles; lower rostral triangular; chin-shields 2, lozenge-shaped; the lower labial shields 7-1-7; sides without any fold; toes rather shorter than in *C. D'Orbignii*, rather stronger, rounded, straight to the last joint, with a series of oblong quadrangular shields below; tail round, with a series of 6-sided shields beneath.

Inhab. Martinique. Mus. Paris, 1 specimen.

D'Orbigny's Cubina. Cubina D'Orbignii. Gymnodactylus D'Orbignii, *Dum. et Bib. E. G.* iii. 418.

Scales granular, with small scattered rounder tubercles; lower labial shields 8; lower rostral moderate, 6-sided, with 2 chin-shields; tail (reproduced?) with squarish imbricate scales; toes long, straight, slender, very slightly compressed, with small 4-sided imbricate scales in a single line beneath.

Inhab. Chili. Mus. Paris.

### 38. Gymnodactylus, *Spix*. G. part, *Dum. et Bib.* Stenodactylus, *Ruppell.*

Toes very slender, much compressed, elongate, versatile, under side of the base rather thickened, and with distinct transverse plates. Thumb like the toes. Back granular, with series of angular tubercles. Belly with 6-sided smooth scales. Tail elongate, rather depressed, angular, tapering, with rings of acute angular spines, with a central series of broad plates beneath. Male with the preanal pores in a curved series? Lower rostral rather large, with a pair of large chin-shields.

The Gymnodactyle. Gymnodactylus Geckoides, *Spix, Braz.* 17, *t.* 18, *f.* 1. Cyrtodactylus Spixii, *Gray, Griffith, A. K.* ix. 52. Stenodactylus scaber, *Ruppell, Atlas, Zool.* 15, *t.* 4, *f.* 2. *Dum. et Bib. E. G.* iii. 421, *t.* 32, *f.* 6. Cyrtodactylus minor, *Gray, B. M.* Gymn. Caspicus, *Eichw. Faun. Casp. Cauc.* 91, *t.* 15, *f.* 12. Uromastyx fasciatus, *Menet. Cat. Caus.* 34.

Grey, with angular brown cross bands; back granular, with longitudinal series of ovate sharply keeled tubercles; lower rostral shield triangular, with 4 smaller chin-shields.

*a*, *b*. In spirits. Shores of the Mediterranean. Presented by J. Miller, Esq.

39. PHYLLURUS, *Cuv.* Gymnodactylus, part, *Dum. et Bib.* Cyrtodactylus, part, *Gray.*

Toes elongate, compressed, joints bent at right angles to each other, the base rather thickened beneath, with distinct cross plates. Sides with a slight fold of skin. Scales granular, with scattered tubercles. Preanal nor femoral pores none. Members long, slender. Tail broad, depressed, contracted at the base, attenuated at the tip. Skin closely attached to the bones of the head.

WHITE'S PHYLLURE. Phyllurus platurus, *Cuv. R. A.* ii. 58. *Guérin, Icon. t.* 14, *f.* 1. Lacerta platurus, *Shaw, in White's N. S. W.* 246, *t.* 3, *f.* 2. *Gen. Zool.* ii. 247. *Nat. Misc. t.* 65. *Daud. Rept.* iv. 24. *Merrem, Tent.* 51. *Wagler, Syn.* 144. *Dum. et Bib. E. G.* iii. 428. *Gray, Griffith, A. K.* ix. 52. Stellio phyllurus, *Schneid. Amph.* ii. 31. Lacerta discosurus, *Lacep. Ann. Mus.* iv. 191. *Merrem, A.* 51. Phyllurus Cuvieri, *Bory, Dict. Class. H. N.* vii. 183, *t.* Gecko platycaudus, *Schinz, Abbild. t.* 17.

Brown; back with small scattered spine-like tubercles; tail depressed, very broad, with a central groove, thin and spinose on the edge, and with cross series of elongate conical tubercles, end slender, cylindrical, tapering; labial shields $\frac{11}{11}$, with a plate between the nostrils.

*a.* Dry. New Holland.
*b.* In spirits. New Holland. Presented by Allan Cunningham, Esq.

The THICK-TAILED PHYLLURE. Phyllurus Miliusii, *Bory, Dict. Class. H. N.* vii. 183, *t.* *Gray, Griffith, A. K.* ix. 52. *Zool. Erebus and Terror, Rept. t.* *Dum. et Bib. E. G.* iii. 430, *t.* 33, *f.* 1.

Chesnut, with white cross bands; back with rather convex conical tubercles; tail broad, thick, with scattered tubercles above, rounded and slightly tubercular on the sides, round, tapering to a fine point at the tip; chin-shields 4-sided; labial shields $\frac{12}{12}$, with no plate between the nostrils.

*a.* In spirits. Tail tubercular, black and white banded. Houtman's Abrollos.
*b.* In spirits. Tail brown, subtubercular. Houtman's Abrollos.
*c.* Young, in spirits.

The SPINELESS PHYLLURE. Phyllurus inermis, *Gray, Zool. Erebus and Terror, Rept. t.*

Brown, minutely black-speckled; back with round convex and rarely pointed tubercles; tail depressed, cordate, covered with nearly uniform rather acute granules, thin on the edge, cylindrical, slender, tapering at the tip.

*a.* In spirits. New Holland.

E. *Toes cylindrical, tapering, toothed on the side, lower surface with denticulated cross plates.* Stenodactylina.

40. STENODACTYLUS, *Cuvier, Dum. et Bib.* Stenodactylus, part, *Fitz.* Gymnodactylus, part, *Weigmann.* Ascalobotes, *Licht. Wagler.* Tolarenta, *Gray.*

Toes all clawed, cylindrical, pointed at the end, edge toothed beneath with denticular cross plates. Femoral nor preanal pores none. Scales granular, equal. Lower eyelid very short. Pupil linear. Tail round, swollen at the base, very slender at the end.

This genus has the external appearance of the *Agamæ*, but distinctly belongs to this family.

WILKINSON'S STENODACTYLE. · Stenodactylus guttatus, *Cuv. R. A.* ii. 58. *Dum. et Bib. E. G.* iii. 434. *Gray, Griff. A. K.* ix. 49. Tolarenta Wilkinsonii, *Gray, Z. M.* 58. *Savigni, Rept. Egypt, t.* 1, *f.* 3. L'Agame punctue, *Geoff. Rept. Egypt, t.* 5, *f.* 2. Trapelus Savignii, *Audouin, Rept. Egypt, Suppl. t.* 1, *f.* 3, 4. Ascalobates Stenodactylus, *Licht. Doubl.* 1823, 102. *Wagler, Syn.* 143.

Brown, white-dotted, beneath white; tail black, base with rings of white becoming confluent at the tip; the lower rostral squarish, rounded behind; chin granular, without any shields.

*a.* In spirits. Egypt. Presented by Sir J. Gardner Wilkinson.

## Tribe IV. Strobilosaura.

Scales of the belly small, rhombic, imbricate, of the back and sides imbricate. Tongue thick, short, convex, end slightly nicked. Eyes diurnal, with valvular eyelids. Pupil round. Feet for walking. Toes unequal, compressed. Tail with more or less distinct whorls of scales.

### Fam. XIX. The Iguanes, (Iguanidæ).

The teeth are round at the root, dilated and compressed at the tip, toothed on the edge; placed in a simple series on the inner side of the jaws, just below the edge, and covered on the inner side by the gums; they are replaced by the young ones, which grow at the base of the old ones, and gradually cause the absorption of their roots. These animals are confined to the New World.

The skull with a single principal frontal bone and two nasals, the parietal hole is placed in the suture between the frontal and parietal bones; the palate generally with a series of teeth on the pterygoids, (Cuv. Oss. Foss. v. t. 16, f. 23—25, t. 17, f. 4 & 34).

I. *Body compressed, covered with rings of squarish small often keeled scales.* Perchers.

A. *Nostril lateral, below the eye-ridge. Toes slender, simple. Back not crested. Interparietal plate small.*

a. *Throat compressed, toothed in front. Third and fourth toes nearly equal. Eyes prominent.*

1. Polychrus. Femoral pores distinct. Scales of back and sides equal.
2. Sphærops. Femoral pores none. Scales of sides larger.

b. *Throat rounded, with a cross fold behind. The fourth toe the longest. Femoral pores none.*

3. Urotrophus. Scales circular, smooth. Tail end revolute.
4. Ecphymotes. Scales rhombic, keeled. Head 4-sided.
5. Læmanctus. Scales rhombic, keeled. Head dilated and rounded behind.

B. *Nostril lateral. Toes simple or fringed. Back crested. Interparietal plate small.*

a. *Femoral pores distinct.*

* *Throat-pouch large, compressed. Tail compressed.*

6. IGUANA. Scales of back moderate. Throat-pouch toothed in front.

7. ALOPONOTUS. Scales of back very minute. Throat-pouch simple in front.

** *Throat rather dilatable, with a cross fold behind. Middle hind toes toothed on the outside.*

† *Tail compressed, with uniform keeled scales.*

8. BRACHYLOPHUS. Head-shields flat. Femoral pores 1-rowed.

9. METAPOCEROS. Head-shields flat. Central frontal with a horn. Femoral pores 2-rowed.

10. TRACHYCEPHALUS. Head-shields convex. Hinder outer toe short.

11. OREOCEPHALUS. Head-shields conical, very rugose. The outer hinder toe elongate.

†† *Tail with rings of spinose scales.*

12. CYCLURA. Head-shields small, with 2 rows of large shields on the muzzle. Tail compressed.

13. CTENOSAURA. Head and muzzle shields small, uniform. Tail roundish, crested.

14. ENYALIOSAURUS. Head and muzzle shields small, uniform. Tail depressed, with 5 longitudinal spinose ridges.

b. *Femoral pores none.*

* *Hinder toes fringed on the side, outer webbed at the base. Throat with a cross fold behind.*

15. BASILISCUS. Head elongate, with an erect crest behind. The back and tail with a fin-like crest.

16. CORYTHÆOLUS. Head elongate, with a low compressed crest behind. Back and tail with a low toothed crest.

17. THYSANODACTYLUS. Head short, with a low toothed crest, convex behind. Back and tail with a low toothed crest.

** *Toes all slender, simple or slightly serrated on the sides. Outer hinder toes quite free. Head short.*

† *Occiput compressed and produced behind. Throat-pouch compressed.*

18. CORYTHOPHANES. Nape crested. Throat-pouch toothed in front.

19. CHAMÆLEOPSIS. Nape not crested. Throat-pouch simple.

†† *Occiput convex. Throat with a cross fold behind.*

20. ENYALIUS. Tail round, not crested. Toes all simple.

21. OPHRYOESSA. Tail compressed. Hinder toes slightly serrated on the outer edge.

C. *Nostril superior, above the eye-ridge, subapical. Toes dilated under the last joint but one, very unequal and united together at the base. Throat-pouch distinct, largely dilatable. Femoral pores none. Head subshielded. Interparietal distinct.*

a. *Scales of the belly granular.*

22. CHAMÆLEOLIS. Back and tail with a bony crest. Toes dilated.

b. *Scales of the belly imbricate, flat.*

23. XIPHOSURUS. Toes dilated. Tail with a bony crest.

24. DACTYLOA. Toes dilated. Back and tail with a crest of compressed scales.

25. RHINOSAURUS. Toes dilated. Back with a slight fold formed of 2 series of small scales. Rostral plate horizontal. Nose produced.

26. ANOLIUS. Toes dilated. Back simple, or with a slight crest formed of 2 series of small scales. Rostral erect. Nose rounded.

27. ACANTHOLIS. Toes dilated. Back simple, with scattered tubercles.

28. DRACONURA. Toes scarcely dilated. Back simple. Tail round.

29. NOROPS. Toes slender, not dilated. Back simple. Tail round.

II. *Body subtrigonal or depressed.* Terrestrial.

D. *Body subtrigonal, covered with large generally keeled scales, directed obliquely towards the back. Head generally shielded. Superciliary and interparietal shields distinct. Throat smooth, or with a cross fold behind. Toes simple.*

a. *Caudal and dorsal scales similar.*

* *Femoral pores distinct. Interparietal plate large.*

30. TROPIDOLEPIS. Back not crested. Throat with a fold on each side. Nostril superior, subapical.

** *Femoral pores none. Anal pores distinct, marginal. Back and tail not crested. Interparietal plate small.*

31. LEIODERA. Nostril lateral on the face-ridge. Scales of the sides of the neck and back large, rhombic. Sides simple.

32. LEIOLÆMUS. Nostril lateral on the face-ridge. Scales of the sides of neck granular, of back rhombic. Sides simple.

33. PTYDOGERUS. Nostril lateral on the face-ridge. Scales of the neck granular, of back rhombic. Sides with a crest of keeled scales.

34. PROCTOTREPUS. Nostril above the face-ridge. Scales of the neck granular, of back rhombic, small. Sides simple.

*** *Femoral and anal pores none.*

† *Interparietal plate linear small. Head-shields rather regular.*

35. LEIOCEPHALUS. Back and tail crested. Scales of throat, back and tail rhombic, moderate.

36. STENOCERUS. Back and tail lowly crested. Scales of back rhombic, of the tail large, spinose.

37. TRACHYCYCLUS. Back and tail not crested. Scales of back rhombic, of tail large, spinose.

†† *Interparietal plate large. Back or tail crested.*

38. TARAGUIRA. Back not crested. Scales of back small, of the throat granular. Tail round, with a slight crest and moderate scales. Ear toothed in front.

39. MICROLOPHUS. Back and tail lowly crested. Scales of the back unequal, small. Tail with moderate scales. The ear toothed in front.

40. OPLURUS. Nape with a small crest. Scales of back large, of the sides small. Tail round, with rings of large spinose scales.

41. STROBILURUS. Nape, back and tail slightly crested. Scales of back moderate. Tail with rings of large spinose scales.

42. URANISCODON. Nape and back lowly crested. Scales of the back large, rhombic. Sides of body and throat simple. Tail round, slender, with moderate scales, slightly keeled above.

43. PLICA. Nape and back lowly crested. Scales of the back small. Sides with 2 folds. The throat with groups of spines. Tail round, slender, keeled above, with moderate scales.

E. *Body depressed, with small scales. Back rarely crested. Tail conical.*

a. *Sides rounded. Femoral and preanal pores none. Eyebrow scales small.*

44. LEIOSURUS. Tail with granular scales. Scales under the eye all small.

45. DIPLOLÆMUS. Tail with granular scales, with an elongated scale under the eye.

46. TROPIDURUS. Tail round, with rings of large scales. Nape lowly crested. Interparietal ——— ?

47. URANOCENTRON. Tail depressed, with rings of large scales. Nape not crested. Interparietal small.

b. *Sides rounded. Femoral and preanal pores distinct, near vent.*

48. PHRYMATURUS. Tail round, with rings of large scales. The Nape not crested.

c. *Sides with a slight fold. Scales uniform. Body roundish.*

49. CALLOSAURUS. Ventral scales smooth. Femoral pores distinct.

50. TROPIDOGASTER. Ventral scales 3-keeled. Femoral pores none.

d. *Sides serrated. Body very depressed. Femoral pores distinct.*

51. PHRYNOSOMA. Head spinose. Back and tail with scattered tubercular scales.

I. *Body compressed, covered with rings of small, squarish, often keeled scales.* Perchers.

A. *Nostril lateral, below the eye-ridge. Back not crested. Toes slender, simple.* Polychrusina.

a. *Throat compressed and toothed in front. Third and fourth toes subequal. Eyes convex, scaly.*

1. POLYCHRUS, *Cuv.*

Head 4-sided, short, shelving in front, covered with numerous nearly regular many-sided shields. Throat covered with an oblique series of square scales, a small dew-lap toothed in front. Palate toothed. Nostril lateral, in a shield, rather behind the top of the nose. Femoral pores distinct. Toes slender, third and fourth nearly of the same length, convex, and covered with very short

cross shields beneath, not fringed nor toothed on the sides. Body compressed. Scales small, rather imbricated and keeled, of the sides smaller, smoother, oblong. Back and tail not crested. Tail slender, elongate, tapering, covered with regular lozenge-shaped keeled scales, the keels forming slight ridges.

The Camaleao. Polychrus marmoratus, *Cuv. R. A. Merrem, Tent.* 48. *Spix, Braz.* 14, *t.* 14. *Guérin, Icon. t.* 11, *f.* 3. *Nieuw. Abbild. t. Weigm. H. Mex.* 16. *Schinz, Rept. t.* 28, *f.* 1. *Dum. et Bib. E. G.* iv. 65. Lacerta marmorata, *Linn. S. N.* 368. *Shaw, Zool.* iii. 224. *Lacep. Q. O.* i. 394, *t.* 26. *Daud. Rept.* iii. 433. P. fasciatus, *De Laporte, Bull. Sci. Nat.* ix. 110. P. virescens, *Wagler, Sys.* 149. *Icon. t.* 12, *f.* 1. P. strigiventris, *Wagler, Icon. t.* 12, *f.* 2. Agama variegata, *Guilding, MSS.*

Brown, often with brown-edged fulvous bands and brown diverging lines; scales of the back nearly equal, those of the middle of the back rather larger than those on the sides of the back; the head-shields rather larger in front; claws pale, with a black back and margin.

*a*, *b*. In spirits. Brazil.
*c*. In spirits. Iridescent purplish. Brazil.
*d*. In spirits. Larger.
*e*. In spirits. W. Indies. From the Rev. L. Guilding's collection.
*f*. In spirits. Brazil. Presented by Lord Stuart.
*g*. In spirits. Like *f*.

2. Sphærops. Polychrus, part, *Weigm., Dum. et Bib.*

Head 4-sided, short, shelving in front, covered with numerous nearly regular many-sided shields, those of the face largest. Eye very prominent, globose. Eyelid granular, with a very small transverse opening. Throat with a small dewlap, covered with oblique series of square scales, toothed in front. Nostril lateral, far back, about one third from the end of the nose. Body compressed. Scales of the back small, keeled, of the sides larger, oblong, in oblique series, smooth. Back and tail not crested. The limbs slender. Toes slender, moderate, the third and fourth nearly equal, convex and covered with a series of cross plates beneath, not fringed on the sides. Femoral pores none. Tail slender, elongate, tapering, covered with rather rhombic keeled scales.

The eye of this genus nearly resembles that of the chameleon, and it also changes colour with equal facility. Weigmann refers it to *Polychrus*, as if it had femoral pores; but our specimens, which agree in every other respect, have them not.

The BRAZILIAN CHAMELEON. Sphærops anomalus. Polychrus anomalus, *Weigmann, Herp. Mex.* 26. *Dum. et Bib. E. G.* iv. 69.

Pale green, with 3 spots on each side of the back, and 2 narrow black streaks from the back edge of the eyes, the upper one extending along the side of the nape.

*a, b.* In spirits. Brazils.

b. *Throat rounded, with a cross fold behind. The fourth toe longest. Femoral pores none.*

3. UROTROPHUS, *Dum. et Bib.*

Head 4-sided, shelving in front, covered with numerous nearly regular small 6-sided shields, those of the forehead largest, interparietal small. Upper part of the orbit surrounded with a series of shields. Eyes rather convex, with rather small opening for the eye. Nostril lateral, anterior round, small. Neck with a cross plait before the chest. Throat rather swollen. Palate toothed. Femoral pores none. Toes slender, the fourth longer than the others, with flat scales beneath, and not fringed or toothed on the sides. Claws sharp. Scales round, smooth, swollen, placed side by side, of the belly flat, square, subimbricate. Tail subcylindrical, long, slender, tapering, bent under at the tip, "prehensile" (*Dum.*), covered with squarish, keeled scales above and below.

UROTROPHUS VAUTIERI *Dum. et Bib. E. G.* iv. 78, *t.* 37, *f.* 1. Muzzle short, blunt, covered with smooth irregular plates; fulvous or brown, brown-banded.

*a, b.* In spirits. Brazils.

4. ECPHYMOTES, *Fitz.* (not *Cuv.*) Læmanctus, part, *Weigmann.*

Head 4-sided, covered with small shields. Crown horizontal and sloping backwards. Neck with a cross fold in front of the chest, no dewlap. Palate toothed. Back and tail not crested. Body compressed. Scales small, convex, rather irregular, of the middle of the back polygonal, keeled, larger. Limbs rather long. Toes elongate, slender, the fourth longer than the third, with a series of convex shields beneath. Femoral pores none. The tail elongate, tapering, covered with keeled scales.

* *Tail round.*

FITZINGER'S ECPHYMOTES. Ecphymotes Fitzingerii. Læmanetus Fitzingerii, *Weigm. H. Mex.* 46. *Dum. et Bib. E. G.* iv, 74.

Head moderate, top of the muzzle bluntly triangular; body reddish brown above, with a row of black spots on the upper part of the back, belly reddish.
Inhab. Brazils. Mus. Berlin.

The WAVED ECPHYMOTE. Ecphymotes undulatus. Læmanctus undulatus, *Weigm. H. Mex.* 46. *Dum. et Bib. E. G.* iv. 7.
Head moderate; tip of the muzzle obtusely triangular; body olive ash, with 2 wavy black brown lateral bands, edged beneath with white.
Inhab. Brazils. Mus. Berlin.

The BLUNT-HEADED ECPHYMOTE. Ecphymotes obtusirostris. Læmanctus obtusirostris, *Weigm. H. Mex.* iv. 75. *Dum. et Bib. E. G.* iv. 75.
Muzzle broad, rather truncated, above subtrapezoid; body brownish ash, brown-spotted, abdomen yellow ashy.
Inhab. Mexico. Mus. Berlin.

** *Tail compressed.*

The ECPHYMOTE. Ecphymotes acutirostris, *Fitz. Verz.* 49. Polychrus acutirostris, *Spix, Braz. t.* 14 a. *Wagler, Syst.* 149. *Schinz. Rept. t.* 28, *f.* 2. *Weigm. H. M. Dum. et Bib. E. G.* iv. 75.
Head long, pointed in front; scales of the back large, flat.
Inhab. Brazil. Mus. Berl.

5. LÆMANCTUS, part, *Weigm.*

Head 4-sided, covered with ——— scales. Crown shelving forwards, broad, rounded behind. Nostril lateral, rather distant from the end of the nose. Neck with a cross plait in front of the chest. Palate not toothed. Body compressed. Scales rhombic, imbricate, keeled, of the sides placed in cross series. Toes slender, elongate, the fourth longer than the third, with a series of tubercles beneath. Femoral pores none. Hind legs and feet very long. Tail round, elongate, tapering, covered with lozenge-shaped keeled scales. Back and tail not crested.

The LONG-LEGGED LÆMANCTUS. Læmanctus longipes, *Weigm. Herp. Mex.* 46, *t.* 4. *Dum. et Bib. E. G.* iv. 72.
Purplish red, brown banded, beneath orange; scales of the back large, rhombic.
Inhab. Mexico. Mus. Berlin.

B. *Nostrils lateral, below the superciliary ridge. Toes simple, slender.* Iguanina.

a. *Femoral pores distinct. Back crested. Scales generally keeled.*

* *Throat-pouch large, compressed. Toes not toothed on the outer side.*

6. IGUANA, *Laurenti.* Hypsilophus and Amblyrhynchus, *Wagler.*

Head short, 4-sided, covered with unequal flat or keeled many-sided shields. Lower jaw covered with large shields. Palate with 2 rows of small teeth. Teeth finely denticulated. Throat with a large compressed pendulous ("not dilatable," *Guilding*) pouch, toothed in front. Back and tail with a paleaceous crest. Toes unequal, simple, with 3 keeled cross shields beneath. Thigh with a single series of pores. Tail very long, slender, compressed, covered with small equal keeled scales.

* *A large circular plate on side of lower jaw.* Hypsilophus, *Wagner.*

The COMMON IGUANA. Iguana tuberculata, *Laur. Syn.* 49. Lacerta Iguana, *Shaw, Zool.* iii. 199. I. delicatissima, *Latr. R.* 155. *Daud. Rept.* iii. 263, *t.* 40, 277 *and* 280. I. cærulea, *Daud. Rept.* iii. 266. *Spix, Braz.* 7, *t.* 7. I. sapadissima, *Merrem, Tent.* 49. I. squamosa, *Spix, Braz.* 5, *t.* 5. I. viridis, *Spix, Braz.* 6, *t.* 6. I. emarginata, *Spix, Braz.* 7, *t.* 8. I. lophyroides, *Spix, Braz.* 8, *t.* 9.

Sides of the neck scattered with tubercles; a large circular plate on the head under the ear; the scales of the end of the muzzle convex or flat.

*a.* Adult, in spirits. West Indies.
*b.* Half grown, in spirits. West Indies.
*c.* Young, in spirits. West Indies.
*d—g.* Young, in spirits.
*h.* Young, in spirits. Tobago. Presented by Alfred Ludlam, Esq.
*i.* Adult, stuffed. West Indies. Presented by J. Turner, Esq.
*k—n.* Adult and half grown, stuffed. West Indies.
*o.* Half grown, stuffed. Pernambuco. Presented by J. P. George Smith, Esq.
*p.* Young, in spirits. Pernambuco. Presented by J. P. George Smith, Esq.

The RHINOCEROS IGUANA. Iguana rhinolophus, *Weigm. H. Mex.* 44. *Dum. et Bib. E. G.* iv. 207. I. tuberculata, var. *Weigm. Isis*, 1828, 364. *Plumier, MSS. t.*

Muzzle with 3 or 4 conical compressed horn-like scales, one behind the other; nape with a single longitudinal series of tubercles; head with a large circular plate under the ear.

*a.* Half grown, stuffed. St. Christopher's, W. Indies. Presented by J. E. Gray, Esq.

** *No circular plate under the ear.* Iguana.

The NAKED-NECKED IGUANA. Iguana delicatissima, *Laur. S. R.* 48. *Seba, Thes.* i. *t.* 96, *f.* 5 (not *Latr.*) *Wagler, Sys.* 148. *Eich. Z. S.* iii. 103. I. nudicollis, *Guv. R. A.* ii. 40. *Guérin, Icon. R. t.* 11, *f.* 1. *Gray, Griffith, A. K.* ix. 37. *Dum. et Bib. E? G.* iv. 208.

Head with a series of large scales on each branch of the lower jaw, and without any large circular plate under the ear; scales of the neck equal.

Inhab. Tropical America.

7. ALOPONOTUS, *Dum. et Bib.*

Head with small equal flat many-sided plates. Lower jaw with small scales on the sides. Palate toothed. Throat with a small pouch, simple in front. Teeth 3-lobed. Back and tail with a low crest. Skin of the back scaleless, covered with much crowded very minute granules. Tail compressed, with whorls of large equal keeled scales. Femoral pores in 2 series.

The APLONOTE. Aloponotus Ricardi, *Dum. et Bib. E. G.* iv. 190, *t.* 38.

Blackish, with many square fulvous spots.

Inhab. St. Domingo. Mus. Paris, 1 specimen.

** *Throat rather dilated, not pouched. The middle hinder toes with triangular horny processes on the inner side.*

† *Tail with unarmed scales.*

8. BRACHYLOPHUS, *Cuvier.*

Head-shields very small, polygonal, equal, flat. Sides of lower jaw with small equal scales. Skin of throat lax, rather pendant, longitudinal. Scales of the back small, square, keeled, of the belly, palm and soles larger, keeled. Dorsal crest low, continued. Teeth toothed on each side. Palate toothed. Tail very long, very slender, not crested, tapering, rounded, compressed at the base, with small equal keeled imbricate scales. Femoral pores in a single series, each in the back edge of a scale. Toes with rather angular smooth cross plates beneath, the two middle hinder toes with triangular horny appendages on the inner edge.

Cuvier by mistake says this genus has no palatine teeth,— *R. A.* ii. 41.

The BANDED BRACHYLOPHE. Brachylophus fasciatus, *Cuvier, R. A.* ii. 41. *Guérin, Icon. Rept. t.* 9. *f.* 1. *Gray, Griffith, A. K.* ix. 37. *Dum. et Bib. E. G.* iv. 227. Iguana fasciata, *Brong. Bul. Sci. Phil.* 36, *t.* 6, *f.* 1. *Class. Revt.* 34, *t.* 1, *f.* 5. *Daud, Rept.* iii. 352.

Bluish brown, with paler blue cross bands.

*a*, *b*. In spirits. South America.

*c*. In spirits. S. America. Presented by the College of Surgeons. Lacerta longicaudata, *Cat. Mus. Coll. Surg.* 194.

MM. Quoy and Gaimard are said to have brought this species from New Guinea.

9. METAPOCEROS, *Wagler*. Iguana, *Cuvier*.

Head short, convex in front, covered with shields. Muzzle with some tubercular plates. Throat lax, without any distinct pouch, with a cross fold behind. Palate toothed. Teeth 3-lobed. Nape, back and tail crested. Tail long, compressed, covered with equal imbricate shielded spineless scales. Femoral pores in two series, each surrounded by a ring of minute scales.

The HORNED IGUANA. Metopoceros cornutus, *Wagler*, *Syst.* 148. *Dum. et Bib. E. G.* iv. 211. Iguana cornuta, *Latr. Rept.* ii. 267. *Daud. Rept.* iii. 282. *Lacep. Q. O.* ii. 493. I. tuberculata, var. *Gray*, *Griffith*, *A. K.* ix. 36.

Forehead with a large horn-like tubercle, and between the nostrils 2 pair of large convex or keeled plates; dorsal crest very low between the shoulders and interrupted at the loins.

Inhab. "St. Domingo," *Lacepède*. Mus. Paris, 1 specimen.

10. TRACHYCEPHALUS. Amblyrhynchus, part, *Gray*, *Dum. et Bib.*, *Bell*.

Head covered with numerous convex subangular rather small many-sided shields, highest and largest over the sides of the crown and granular over the eyebrows. Lower jaw with regular shields. Body covered with small squarish scales, placed in cross series. Back and tail with a low crest, formed of conical scales, which is interrupted over the loins and longest on the nape. Tail round, tapering, rather compressed at the end, covered with small square keeled scales, in cross series. Femoral pores distinct, each surrounded with a series of minute scales. Toes elongate, unequal, with a series of 3-keeled shields beneath, 2 or 3 series of small scales on each side and a row of small shields above. The two middle hinder toes with a series of triangular horny appendages on the inner side, the first hinder toe much the longest, the outer hinder toes short.

The ROUGH HEAD. Trachycephalus subcristatus. Amblyrhynchus subcristatus, *Gray*, *Zool. Misc.* 6. *Zool. Beechey's Voy. Rept.* 93. *Darwin*, *Journal*, 469. Amblyrhynchus Demartii, *Dum. et Bib. E. G.* iv. 197. *Bell*, *Zool. Beagle*, 22, *t.* 12.

Scales of the back small, of the outer side of the fore arm and the front of the thigh much larger, conical; crest of round conical tubercles, those of the back low, of the nape longer, of the tail more compressed.

a. Young, in spirits. Head-shields convex. Charles Island, Galapagos. Presented by Charles Darwin, Esq.
b. Adult, stuffed, Head-shields subangular. Galapagos. Presented by Capt. Fitzroy, R.N.

11. OREOCEPHALUS. Amblyrhynchus, *Bell*, *Gray*, not *Wagler*.

Head of young covered with moderate subsymmetrical rather convex shields; of adult, with unequal, conical, high, tubercular shields, those of the muzzle larger, angular, highly conical and rugose, as if formed of agglutinated hairs. Throat dilatable, crumpled, but without any distinct pouch. Body covered with conical tubercular scales, of the adult pointed, rough. Palate toothed? Teeth 3-lobed. Nape and back with a high paleaceous crest. Tail compressed, covered with whorls of small square keeled scales, and with a crest formed of rhombic compressed scales. Thigh with with 1 or 2 series of pores, each in the centre of a scale. Toes strong, rounded and simple on the sides, with smooth band-like shields beneath, the middle ones united by a web at the base, the middle hind toes with a series of triangular horny processes on the inner side, the outer hinder elongate, nearly as long as the others, and with a large compressed claw. Claws large.

The MARINE OREOCEPHALE. Oreocephalus cristatus. Amblyrhynchus cristatus, *Bell, Zool. Journ.* ii. 204, *t.* 12. *Zool. Beagle, Rept.* 23. *Gray, Z. M.* 6. *Darwin, Jour.* 466. *Dum. et Bib. E. G.* iv. 195. A. ater, *Gray, Griffith, A. K.* ix. 37. *Dum. et Bib. E. G.* iv. 196. Iguana, *Scouler, Brewster's Jour. Sci.* v. 213.

Dorsal crest formed of elongate compressed scales; scales of the back moderate, conical, acute, of the outer side of the fore legs scarcely larger, acute.

a. Adult, stuffed. Scales of the dorsal crest round, conical, cross waved. Galapagos. Presented by Capt. Fitzroy, R.N.
b. Half grown, stuffed. Scales of the dorsal crest compressed. Galapagos. Presented by Capt. Fitzroy, R.N.
A. ater, *Gray, Griffith, A. K.* ix. 37. *Dum. et Bib. E. G.* iv. 196.
c. Adult, stuffed. Lost the scales of the head. Galapagos.
d. Young, in spirits. Head-shields few, moderate, unequal, symmetrical, convex, the central ones of the forehead keeled, those over the eyebrows small, convex, crest of the nape formed of blunt subcylindrical scales, of the back of small low compressed triangular scales, of the tail like those of the back but larger, squarer, and forming a nearly even line; scales of the body small, conical, blunt, smooth, equal. Charles Island, Galapagos. Presented by Charles Darwin, Esq.

†† *Tail with rings of large spinose scales.*

12. Cyclura, *Harlan.* Iguana, part, *Cuv.* Ctenosaura, part, *Weigm.*

Head with flat or rather convex angular shields, those of the muzzle larger, placed in pairs. The lower jaw with elongated keeled scales on its sides. Throat with a lax skin, plaited across but without any true pouch. Palate toothed. Teeth 3-lobed. Femoral pores in a single series, numerous, each surrounded by a number of scales. Back and tail crested. Tail compressed, with whorls of scales and rings of larger spined scales, separated by 3 or 4 rings of small scales. Toes with 3 or 5 keeled plates beneath, the two middle hinder ones fringed with a series of 3 or 4 horny triangular processes on the inner side of each joint, forming a kind of lateral claw.

* *Shields on the muzzle approximate.*

MacLeay's Cyclure. Cyclura MacLeayii. Cyclura carinata, *Gray, Ann. N. H.*

Muzzle with 3 or 4 pair of transversely keeled many-sided shields above, with only a few scales between the hinder pairs, the rest of the head-shields small, subequal, with a central keel. Olive, paler marbled and spotted; lower jaw with 1, then 2 series of elongated keeled scales, separated from the labial shields by small scales behind.

*a.* In spirits. Cuba. Presented by W. S. MacLeay, Esq.

** *Shields on the muzzle separated by small scales.*

The Clouded Cyclure. * Cyclura nubila, *Gray, Griffith, A. K.* ix. 39. *Weigm. Herp. Mex.* 42. Lacerta nubila, *Shaw.* C. carinata, *Harlan, Journ. A. Nat. Sci. Phil.* iv. 242, 250, t. 15. *Gray, Griffith, A. K.* ix. 39. *Weigm. H. Mex.* 42. Iguana Cyclura, *Cuv. R. A.* ii. 45. C. Harlani, *Coct. Sagra, Cuba, Erp. t.* 6. *Dum. et Bib. E. G.* iv. 218. *Catesby, Carol.* ii. *t.* 64?

Muzzle with three large keeled many-sided shields upon each side, separated by small plates, and with a central shield behind them, and one near the middle of the head; dorsal crest of the adult interrupted between the shoulders and loins. Grey or bluish grey, with 6 or 12 crescent-like bands with irregular edges; the lower jaw with a single series of larger keeled scales, and several rows of minute scales between them and the labial plates.

*a.* Half grown, in spirits.

Colley's Cyclura. Cyclura Collei.

Muzzle with 4 transversely keeled many-sided shields on each side, rest of the head covered with small unequal shields; dorsal

crest low, suddenly interrupted over the shoulder and loins; olive, darker marbled; lower jaw with 2, and behind 3 or 4 series of large elongated keeled scales, without any small many-sided ones between them and the labial plates.

*a*. Adult, stuffed. Jamaica. Presented by the Admiralty, from Haslar Hospital.

13. CTENOSAURA, *Gray, Weigm.* Uromastyx, *Merrem.* Cyclura, part, *Weigm.*

Head with numerous small subequal flat many-sided shields, those of the upper part of the nose similar to the rest. Side of the lower jaw covered with uniform rather elongated scales. Throat with a lax skin plaited across, but without any true pouch. Palate toothed. Teeth 3-lobed. Toes with 3 or 5 keeled plates beneath. Femoral pores in a single series, few (5 or 6) on each side. Back with a crest often continued over the shoulder. Tail round, crested above, and covered with rings of spinose scales, rather depressed at the base, and with rings of spines, separated by 2 or 3 series of small scales.

** Dorsal crest low. Tail round at the end.*

SHAW'S CTENOSAURE. Ctenosaura acanthura, *Gray, Griffith, A. K.* ix. 37. *Blainv. Nov. Mem. Mus.* iv. 288, *t.* 24, *f.* 1. Lacerta acanthura, *Shaw, Zool.* iii. 216. *Merrem, Tent.* 56. *Gray, Ann. Phil.* ii. 57. *Dum. et Bib. E. G.* iv. 222. Ct. cycluroides, *Weigm. Isis*, 1828, 371. C. lanceolata, *Gray, Griffith, A. K.?* Cyclura teres, *Harlan, J. A. N. S. Phil.* iv. 246, 250, *t.* 16. *Weigm. H. M.* 42. Ct. armata, *Gray, l. c.* 37. Cycl. articulata, *Weigm. H. M.* 42. Cycl. denticulata, *Weigm. H. M.* 42, *t.* 3. Ctenosaurus Shawii, *Gray.*

Dorsal crest low, interrupted over the loins in the young, continued in the adults; the spinose scales of the tail large, separated by only 2 rings of small scales at the base, close to one another at the end.

*a*. In spirits. Rather bleached. California?
*b*. Young, in spirits. Honduras.
*c*. Young, in spirits. W. Indies? Presented by Thomas Bell, Esq.
*d*. Adult, stuffed. Tropical America. Presented by the Admiralty from Haslar Hospital.

*** Dorsal crest high. Tail compressed at the end.*

WEIGMANN'S CTENOSAURE. Ctenosaura pectinata. Cyclura pectinata, *Weigm. H. Mex.* 42, *t.* 2. *Dum. et Bib. E. G.* iv. 221.

Olive brown, yellowish varied; tail rather compressed; dorsal crest high, interrupted in front of the base of the tail.

Inhab. Mexico, Mus. Berl.

14. Enyaliosaurus. Cyclura, part, *Gray.*

Head with numerous small subequal many-sided shields, those of the upper part of the nose and interparietal plate very small. Throat with a lax skin, plaited across in front, but without any true pouch. Palate toothed? Teeth lobed. Back with a crest of compressed scales. Toes with 3-keeled plates below. Tail with alternate rings of small and large spinose scales, depressed at the base, the central and 2 lateral series of scales on each side (separated by 2 rows of smaller scales) larger, forming keels, the end roundish, tapering, the under side of the base with rings of many small scales.

The Armed Lizard. Enyaliosaurus quinquecarinatus. Cyclura quinquecarinata, *Gray, Z. M.* 59.

Olive, black-varied.

*a.* Adult? stuffed. Demerara?

* *Femoral pores none. Hinder toes fringed on the side, the outer hinder webbed at the base.*

† *Head elongate, produced behind.*

15. Basiliscus, *Laur.*

Head covered with small flat rather keeled uniform scales, of the occiput smaller. Occiput elongate, narrow behind, with a compressed vertical triangular crest of skin. Palate toothed. The throat with a slight pouch, and with a well marked cross fold. Back and tail (of the males?) with a high compressed crest, supported by horny rays. Scales of the back small, rhombic, smooth, of the belly larger, square, smooth. Femoral pores none. Toes elongate, compressed, unequal, with a series of broad scales above, and rhombic truncated keeled scales on the side, with a series of convex square plates beneath. The hinder toes with series of thick subtubercular plates on the inner side, and with a broad subdentate continued fringe on the outer side. The outer hinder toes webbed at the base.

The Basilic. Basiliscus Americanus, *Laur. Syn.* 50. Lacerta Basiliscus, *Linn. S. N.* i. 366. *Seba*, i. *t.* 100, *f.* 1. *Guérin, Icon, t.* 11, *f.* 2. *Latr. Rept.* 258. B. mitratus, *Daud. Rept.* iii. 320, *t.* 42. *Dum. et Bib. E. G.* iii. 181. Lion Lizard, *Catesby, Carol.* ii. 468.

Bluish.

*a.* Half grown, in spirits. Tropical America, Guiana?

16. Corythæolus, *Kaup.* Œdicoryphus, *Wagler.* Basaliscus, part, *Weigm., Wagler.*

Head rather elongate, covered with small uniform keeled scales. Eyebrows and back of head with rather small scales. Occiput

narrowed and with a triangular, compressed, vertical crest of skin behind. Lower labial with a series of larger chin-shields beneath. Palate toothed. Throat with a cross fold and a small pouch in front. Back and tail with a low serrated crest of compressed scales. Scales of the back small, keeled, of the limbs and belly larger, rhombic, keeled. Tail rather compressed, with a low crest of compressed scales, with equal keeled scales on the sides. Femoral pores none. Toes elongate, unequal, compressed, with 2 or 3 keeled rhombic scales above and on the sides, with a series of compressed scales beneath, each furnished with a central round tubercle, the hinder toes with a narrow dentated fringe on the outer side, and a very obscure one on the inner, the hinder outer toes webbed at the base.

The CORYTHÆOLE. Corythæolus vittatus, *Kaup. Isis*, 1829, 1147. *Weigm. H. M.* 15, 40, *t.* 15 (male). Basiliscus vittatus, *Weigm. Isis*, 1828, 373. *Wagler, Sys.* 148. *Dum. et Bib. E. G.* iv. 187. B. lineatus, *Gray, MSS. Mus. Col. Surg. n.* 1306.

Olive, with black cross bands, and 2 white streaks on each side; male with a high, female with a low rounded occipital crest.

*a*. In spirits, female with eggs. Olive, back with 6 black cross bands, beneath pale, black-spotted, occipital crest low, head black-spotted, with a narrow black streak on the lower part of the temples. Honduras. From Mr. Johnson's collection.

*b*. In spirits. Honduras. Like *a*, but pale streak more distinct, black-edged on each side, as it arises from the eye, the hinder edge of the gape of the mouth pale.

### †† *Head short, round and simple behind.*

### 17. THYSANODACTYLUS.

Head short, 4-sided, covered with small subequal keeled scales the interparietal plate small. Eyebrows, occiput and temple covered with smaller keeled scales. Eyebrows keeled. Chin with a series of shields on each side under the labial shields. Nostril lateral, anterior. Body compressed. Back with small squarish convex or bluntly keeled scales, and the belly with larger square smooth scales. Back and tail with a slight low crest of small compressed scales. Tail elongate, slightly compressed, covered with small square keeled scales, under side wider, with 3 or 4 ridges formed by the keel of the scales. Femoral pores none. Toes slender, very unequal, compressed, with a series of compressed keeled scales beneath, in the hinder ones forming a toothed edge to their inner side, the hinder ones are furnished with a broad continued scaly edge on the outer side, the outer hinder one with a web at the base.

The Edged Toe. Thysanodactylus bilineatus. Ophyessa bilineata, *Gray, Zool. Beechey's Voy. Rept.* 94.

Olive, black spotted, with a narrow pale streak on each side of the back; chest and beneath pale whitish; temple with some narrow black streaks.

*a.* Half grown, in spirits. Fernando de Noronha. From H.M.S. Chanticleer.

*b.* In spirits. South America.

** *Back crested. Head short, compressed and produced behind. Toes not fringed.*

18. Corythophanes, *Boie.*

Head short, covered with small scales. Forehead rhombic, the hinder part elevated into a kind of crest. Nape and back with a distinct uninterrupted crest. Palate toothed. Ear not armed above. Throat with a transverse fold, and with a small denticulated throat-pouch. Scales equal. Toes slender, simple, (not fringed nor dilated). Tail long, rounded, not crested. Femoral pores none. Thighs without any fold beneath.

The Corythophane. Corythophanes cristata, (*Boie*), *Gray, Griffith, A. K.* ix. 55. *Gravenh. Acad. N. Cur.* xvi. 938, *t.* 65, *f.* 6, 10. *Dum. et Bib. E. G.* iv. 174. Agama cristata, *Merrem, Tent.* 50. *Seba,* i. 147, *t.* 94, *f.* 4. La Sourcilleux, *Bonnat, Enc. Meth. t.* 4, *f.* 1. Iguana pileata, *Gravenh. Nov. Act. Lisp.* xvi. *t.* (young).

Scales small, irregular, close-pressed, smooth, those near the dorsal crest keeled, of the chest and belly slender, 4-sided, larger keeled, in oblique cross bands, of limbs and tail very large, rhombic, keeled, of tail rhombic.

Inhab. Mexico. Mus. Berlin, Klenkenbergii.

19. Chamæleopsis, *Weigm.* Corythophanes, part, *Dum. et Bib.*

Head covered with small scales, the hinder part elevated into a kind of crest. Nape not crested. Back crested. Palate toothed. Ears with 2 spines above. Throat with a cross fold, and with a very small simple pouch. Scales unequal, smooth, with cross bands of keeled scales. Toes slender, simple. Tail long, rounded, not crested. Femoral pores none. Thighs with a longitudinal plait beneath. Claws of the front feet very long.

The Qualtapalcalt. Chamæleopsis Hernandesii, *Gray, Griffith, A. K.* ix. 45. *Beechey, Voy. t. f.* (jun.) *Gravenh. Acad. N. Cur.* xvi. 944, *t.* 65, *f.* 1—5. *Weigm. Herp. Mex.* 15, 37, 39, *t.* 6. Chamæleo Mexicanus, *Wagler, Isis,* 1832, 296. Corythrophanes chamæleopsis, *Weigm. H. Mex. Dum. et Bib. E. G.* iv. 176.

Scales of the back close-pressed, unequal, with cross series of conical keeled scales, an arched series of large keeled scales across the shoulders and haunches, a little above the base of the legs, a group of 5 or 6 large scales, forming a prominent tubercle at the upper end of the ear; orbit with small granular scales.

*a*. In spirits. Mexico. Presented by J. E. Gray, Esq.

**** Back crested. Head short, simple, rounded behind. Toes simple, slender.*

20. ENYALIUS, *Wagler*. Uraniscodon, part, *Kaup*. Lophyrus, part, *Spix*. Xiphosurus, part, *Gray*.

Head short, covered with equal, convex, small, polygonal plates. Eyebrows and temple with small granular scales. Skin of the throat slightly dilatable, with a fold on the chest. Back crested, with small convex roundish scales. Belly with square keeled scales. Limbs and tail with lozenge-shaped truncated keeled scales. Tail rounded, elongate, slender, angular beneath and at the tip, not crested. Palate toothed. Teeth 3-lobed. Femoral pores none. Toes slender, simple, elongate, unequal, covered with rhombic keeled scales above and on the sides, and with a series of narrow 2-keeled rough hexangular scales beneath, not fringed on the sides, the hinder outer toe quite free at the base.

** Scales of back small, convex.*

The LOZENGE-MARKED ENYALIUS. Enyalius rhombifer, *Wagler, Sys.* 150. *Dum. et Bib. E. G.* iv. 231. Lophyrus rhombifer, *Spix, Braz.* 9, *t.* 11. L. albomaxillaris, *Spix, Braz.* 11, *t.* 13, *f.* 3, (very young). L. margaritaceus, *Spix, Braz.* 10, *t.* 12, *f.* 1? *Gray, Griffith, A. K.* ix. ? L. Braziliensis, *Lesson, Voy. Coqu. Rept. t.* 1, *f.* 3? *Gray, Griffith, A. K.* ix.440. Agama catenata, *Nieuw. Abbild. t.* ? *Schinz. Rept. t.* 25, *f.* 1? lost scales of back.

Scales small, nearly equal, of the supraorbital region very small, in 12 longitudinal series, of the abdomen square; brown, with a series of white-edged brown rhombic spots on the back; chin with 2 diverging series of 3 flat 6-sided scales.

*a*, *b*. Adult and half grown, in spirits. Scales of the front of the abdomen square. Brazils. From Dr. Gardiner's collection.

*c*. Half grown, in spirits. Scales of the front of the abdomen rather 6-sided, of the back square. Brazils. Presented by Lord Stuart.

*d*. Stuffed, half grown. Olive. S. America.

** *Scales of back and belly keeled, of sides smaller, granular.*

The Two-streaked Enyalius. Enyalius bilineatus, *Dum. et Bib. E. G.* iv. 234.

Scales of the back and belly keeled, of the sides much smaller, of the supraocular region placed in 6 or 7 longitudinal series; brown, with a white ray on each side of the back.

Inhab. Brazils. Mus. Paris, 1 specimen.

21. Ophryoessa, *Boie.* Uraniscodon, part, *Kaup.* Xiphosurus, part, *Gray*

Head short, it and the eyebrows covered with small nearly equal keeled polygonal plates. Interparietal plate small, surrounded with rather more convex ones. Nostrils lateral, anterior. Skin of throat with a slight longitudinal, and of chest with a distinct transverse fold. Palate toothed. Body compressed. Scales keeled, of the back small, of the belly larger. Back and tail with a toothed crest of low compressed scales, covered with keeled rhombic rather truncated scales. Femoral pores none. Toes slender, with keeled acute-tipped cross shields beneath, and with rhombic keeled scales above, the outer edge of the hinder ones slightly fringed and regularly serrated, the outer hind toe quite free at the base. Tail compressed.

The Eyebrowed Ophryoessa. Ophryoessa superciliosa, *Boie, Isis. Guérin, Icon. Rept. t.* 8, *f.* 1. *Gray, Griffith, A. K.* ix. 40. *Dum. et Bib. E. G.* iv. 238. Lacerta superciliosa, *Linn. Mus. Ad.* 41. *S. N.* i. *Seba*, i. *t.* 93, *f.* 1. *t.* 96, *f.* 6. *t.* 109, *f.* 4. ii. *t.* 14, *f.* 4. *Daud. R.* iii. 336. *Kuhl, Beytr.* 105. Lophyrus xiphosurus, *Spix, Braz. t.* 10. L. aureonitens, *Spix, Braz.* 12, *t.* 13 a, very young.

Brown; occiput with a cross band of 6 rather larger angular conical scales, the two middle largest.

*a.* Adult, in spirits. America.
"Lac. superciliosa," *Shaw.*

*b.* Adult, in spirits. "Alabama, Mr. Mac Williams." Presented by Thomas Bell, Esq.

C. *Toes dilated under the last joint but one. Throat-pouch distinct, largely dilatable. Back often crested. Femoral pores none. Nostril superior, subapical.* Anoliina.

22. Chamæleolis, *Cocteau.* Anolis, part, *Dum. et Bib.*

Toes elongate, the last joint but one much dilated. Scales of the back and sides flat and smooth, circular and unequal in size, of the belly very minute and granular. Tail compressed, subden-

tated above. Back and nape with a crest formed of a fold of skin crowned with a series of short compressed scales. Chin and belly with a crest formed of 2 series of very small scales, those of the chin largest. Head large, occiput produced, rounder behind. Jaws equal. Throat with an extensile pouch, toothed on its edge.

The CUBAN CHAMÆLEOLIS. Chamæleolis Fernandina, *Coct. in Sagra, Cuba*, 145, *t.* 12. Anolis Chameleonides, *Dum. et Bib. E. G.* iv. 168.

Head ovate, triangular; neck and back with a dentated fold of skin; yellowish, with darker bands; throat-pouch notched.

*a.* Adult, in spirits. Cuba. Presented by W. S. MacLeay, Esq.

### 23. XIPHOSURUS, *Fitz., Gray, Ann. N. H.*

The penultimate joint of the toes dilated. Tail with a fin-like crest. Nostrils above the keel of the muzzle. The ventral shields imbricate. Jaws equal. Muzzle rounded. Rostral plate erect.

* *Back and nape with a crest of* 1 *series of compressed scales.*

The CRESTED ANOLIS. Xiphosurus velifer, *Gray, Ann. N. H.* v. 111. Anolis velifer, *Cuv. R. A. t.* 5, *f.* 1. *Guérin, Icon. t.* 12, *f.* 1. *Dum. et Bib. E. G.* iv. 164. A. Cuvieri, *Merrem. Tent.* 45. Le grand Anolis à crête, *Cuv. R. A.* ii. 45, *t.* 5, *f.* 1.

Bluish, with a black spot on each side; the head pyramidical, equally 4-sided, forehead triangular, hispid, covered with 6-sided flattish plates; throat-pouch very large; nape and back with a toothed crest; tail very much compressed, with a fin-like crest at the basal half supported by bony rays; scales of the upper parts oval, keeled, of the belly similar, but imbricate, smooth and convex.

Inhabits ———? Mus. Paris.

RICORD'S ANOLIS. Xiphosurus Ricordii, *Gray, Ann. N. H.* v. 111. Anolis Ricordii, *Dum. et Bib. E. G.* iv. 167.

Blue, sides with 2 broad black streaks; head equally 4-sided; forehead oval, triangular, with large hexangular swollen shields, with a large lozenge-shaped concavity between the crown and occiput; back tented; nape and back with a toothed crest; the tail compressed, with a high crest supported by bony rays.

Inhab. St. Domingo. Mus. Paris, 1 specimen.

** *Back simple. Nape with a very indistinct crest of* 2 *series of scales.*

The SMALLER CRESTED ANOLIS. Xiphosurus cristatellus. Anolis cristatellus, *Dum. et Bib. E. G.* iv. 143. A. porphyreus, *Oppel, Mus. Par.* (female). Le petit Anolis a crête, *Cuv. R. A.* ii. 49.

Olive, with a few black spots; beneath silvery, black-dotted; head pyramidical, quadrangular; nape and back with a fold edged with a double series of rather larger scales; scales of the back and sides very minute, granular, of the middle of the back rather larger, 6-sided, of the belly ovate, thin, larger, flat, smooth; tail compressed, sharp-edged above; the males with a large crest, supported by bony rays.

*a*. Male, in spirits. West Indies? From Mr. Leadbeater's collection.

### 24. Dactyloa, *Gray*.

The penultimate joint of the toes dilated. Back and tail with a crest formed of a series of compressed scales. Ventral scales flat, imbricate. Jaws equal. Muzzle rounded in front. Rostral plate erect.

#### * *Scales large, flat, not imbricate.*

The Equestrian Anolis. Dactyloa equestris, *Gray*, *Ann. N. H.* v. 111. Anolis equestris, *Merrem*, *Tent.* 45. *Dum. et Bib. E. G.* iv. 157. Le grand Anolis à écharpe, *Cuv. R. A.* ii. 49, *t.* 5, *f.* 2. A. rhodolæmus, *Bell*, *Zool. Journ.* iii. 235, *t.* 20. *Sloane*, *Jam.* ii. 273, *f.* 2.

Head very rugose, tubercular, shields conical; ears small; throat-pouch yellow or white; nape, back and tail with a simple denticulated crest; tail very compressed; scales of the upper parts flat, smooth, not imbricate, of the belly imbricate, keelless; blue or green, with an oblique whitish band above the shoulder.

*a*. Adult, in spirits. Head very warty, temple with a round group of warts. Cuba. Presented by W. S. MacLeay, Esq.

*b*. Half grown, in spirits. Head and temple rather warty. From Mr. Leadbeater's collection.

#### ** *Scales small, granular, convex.*

Edwards's Anolis. Dactyloa Edwardsii. Anolis Edwardsii, *Merrem*, *Tent.* 45. *Dum. et Bib. E. G.* iv. 161. The Blue Lizard, *Edw. Glean.* i. 75, *t.* 245, *f.* 2.

Green, with 4 or 5 pale cross bands; head elongate, depressed, covered with small nearly equal keeled plates; nape, back and tail with a small serrated crest; tail compressed, sharp-edged; scales of the upper parts small, close, granular, conical, of the belly square, smooth, imbricate.

*a*. Adult, in spirits. Dorsal crest rather irregular, low.

*b*. Adult, in spirits. Jamaica. Presented by Robert Heward, Esq.

*c*, *d*. Adult and half grown, in spirits. Jamaica.

*e.* Adult, in spirits. The crest of the back low, in some places irregularly, as if formed of 2 series of scales.

*f.* Young, in spirits. Olive, throat black-lined, crest low over the nape, indistinct on the back, back with a central series of 8 round white spots. Jamaica. Presented by Robert Heward, Esq.

D. maculata, *Gray, B. M.*

Varies in the size of the chin-shields, the height of the crest, in the number and size of the lines of scales at the back of the vent, and of the disk of the scales over the eyebrows.

### 25. Rhinosaurus.

The penultimate joint of the toes dilated. Back and nape with a low crest formed of 2 diverging series of short triangular scales. Ventral scales flat, imbricate. Head elongate. Upper jaw produced beyond the lower, acute in front. Rostral plate triangular, horizontal, inferior.

The Sharp-nosed Anolis. Rhinosaurus gracilis. Anolis gracilis, *Nieuw. Abbild. t. f.* 2. A. nasicus, *Dum. et Bib. E. G.* iv. 115.

Head elongated; muzzle pointed, swollen, compressed, slightly arched and produced beyond the lower jaw, with a rhomboidal anterior frontal pit; scales of the head oblong, convex in the centre, of the back granular, very small, oblong, smooth, of the belly ovate, smooth, imbricate; throat-pouch very large, yellow; nape and back with a dorsal fold; tail very long and slender, without any keel, strong and triangular at the base, slightly compressed at the end.

*a.* Stuffed. Blackish grey. Bahia. Presented by —— Kerr, Esq.

### 26. Anolius, part, *Cuv.* Anolis, *Merrem.*

The penultimate joint of the toes dilated. Back and nape simple, or with a low crest formed of 2 diverging series of short triangular scales. Ventral scales flat, imbricate. Head moderate. Upper jaw even with the lower, rounded at the end. The rostral plate erect.

On leaves of trees, jumping from branch to branch.

The species are very difficult to be distinguished from each other in spirits. The toes appear to vary in width and length in the same species; it may be a sexual distinction.

A. *Crest produced along the back.*

a. *Tail much compressed, irregularly serrated above. Ventral scales square, smooth.*

The LARGE-CHEEKED ANOLIS. Anolius Leachii, *Dum. et Bib. E. G.* iv. 153. A. maculatus, *Gray, Ann. N. H.* v. 112. Lacerta bimaculata, *Sparrman, N. Act. Stockh.* v. 169, *t.* 4, *f.* 1, (not *Linn.*)

Scales of the back convex, not imbricate, of the sides smaller, granular, of the belly smooth, roundish, imbricate; bluish, black-spotted; lip, streak over ear and shoulders white, and a streak from the nose including the eye and over the ears black; head elongate, depressed, swollen below behind; head-shields smooth.

*a.* In spirits. S. America.
*b.* In spirits. Nevis, W. Indies. Presented by Thomas Cottle, Esq.
*c.* Half grown, in spirits.

b. *Tail compressed, regularly serrated above and many-keeled beneath. Ventral scales keeled.*

The OCCIPITAL ANOLIS. Anolius occipitalis, *Gray, Ann. N. H.* v. 112.

Scales of the back granular, keeled, near the vertebral line rather larger, ovate, of the sides smaller, elongated, of the belly keeled, squarish; occipital pit large, rounded, toothed; head-shields smooth; brown, with 5 dark cross bands, beneath bluish white; crest of the nape formed of 2 series of rather elongate conical scales, of the back of distant rather irregularly placed keeled scales; tail compressed, with strongly toothed keel, with a series of smaller scales on each side.

*a, b.* Adult and young, in spirits. West Indies. Presented by Thomas Bell, Esq.

The LINED ANOLIS. Anolius lineatus, *Daud. Rept.* iv. 66, *t.* 48, *f.* 1. *Merrem, Tent.* 45. *Dum. et Bib. E. G.* iv. 146. Lacerta strumosa, *Linn. S. N.* i. 368. *Seba, Thes.* ii. *t.* 20, *f.* 4. *Shaw, Zool.* iii. 224. Salamandra s. *Laur. Syn.* 42. La Goitreux, *Lacep. Q. O.* i. 463.

Head moderately elongated; muzzle rounded at the end; occipital plate small; throat-pouch large, with a large black spot; nape and back with a longitudinal fold; scales of the back small, equal, circular, not imbricate and slightly keeled, of the belly 6-sided, imbricate, slightly keeled; tail compressed, slightly toothed above; grey, with 2 interrupted black streaks on each side.

Inhab. Martinique. Mus. Paris, 2 specimens.

c. *Tail compressed, slightly serrated above. Ventral scales small, squarish.*

The Alligator Anolis. Anolius Cepedii, *Merrem, Tent.* 44. Lacerta bimaculata, var. *Shaw, Zool.* iii. 223, (not *Sparrm.*) *Seba*, i. 139, *t.* 87, *f.* 4—6. *Latr. R.* i. 273. *Daud. Rept.* iv. 55. Ig. roquet, *Brongn. Class. R.* 32, *t.* 1, *f.* 3. La Roquet, *Lacep. Q. O.* i. 397, *t.* 27. A. Alligator, *Dum. et Bib. E. G.* iv. 135. *Gray, Ann. N. H.* v. 112. A. similis, *Gray, Ann. N. H.* v. 112.

Olive; head rather elongate, depressed, broad and rounded in front; head-shields flat, with 2 series of larger close transverse convex shields in front; throat-pouch large; ears moderate; nape back and tail with a small plait, furnished with a double row of rather larger scales; scales of the back small, many-sided, flat, granular, not imbricate, of the sides smaller, of the belly larger, smooth, imbricate; tail compressed, sharp-edged above.

*a.* In spirits. Pale bluish, with scattered white spots; limbs and toes elongate. America.

A. Alligator, *Gray.*

*b.* In spirits. Olive, black-dotted; limbs and toes rather shorter and stouter. W. Indies?

A. similis, *Gray.*

*c—f.* In spirits, like *a* and *b*. West Indies. From Mr. Scrivener's collection.

*g, h.* Young, in spirits. Toes very narrow, back scarcely crested. West Indies. From Mr. Scrivener's collection.

The Marbled Anolis. Anolius marmoratus, *Dum. et Bib. E. G.* iv. 139, (not *Gray*).

Head pyramidical, moderately elongated, rather depressed; muzzle rather truncated, rounded; frontal cavity rather rhomboidal; interparietal plate dilated; the eyebrows with a disk of 8 or 10 angular slightly keeled plates; the throat-pouch and ears large; nape and back with a fold, edged with a double row of rather larger scales; scales of the back and sides small, rhombic, convex, not imbricate, of the belly larger, imbricate, smooth; tail compressed, sharp-edged and unequally serrated above; blue, head and neck brown, paler marbled, with a black spot on the armpit.

Inhab. Martinique. Mus. Paris. Perhaps the short-headed variety of the former.

B. *Crest only on the nape or wanting.*

a. *Ventral scales ovate, keeled.*

* *Tail roundish, with only a slight central keel above.*

The Ridge-nosed Anolis. Anolius porcatus, *Gray, Ann. N. H.* v. 112.

Scales of the back moderate, 6-sided, keeled, of the tail large, keeled, keels forming continued ridges; muzzle elongated, with 5 very prominent keels; brown or green, with irregular black cross lines on the back, a streak on the side of the neck; beneath and sometimes the dorsal line silvery.

*a*. In spirits. Back spotted. Cuba. Presented by W. S. MacLeay, Esq.
*b*. Young, in spirits. With a yellowish dorsal streak, rather wider behind. Texas.
*c—e*. In spirits. Cuba? From Mr. Leadbeater's collection.

The Carolina Anolis. Anolius principalis. Lacerta principalis, *Linn. Mus. Ad.* 43. *S. N.* i. 360. *Amen. Acad.* i. 286, *t.* 14, *f.* 2. *Catesby, Carol.* ii. *t.* 65. *Merrem, Tent.* 44. Iguana bullaris, *Latr. H. R.* i. 279. *Merrem, Tent.* 44. *Weigm. H. M.* 16. *Wagler, Sys.* 148. A. roquet, *Daud. Rept.* iv. 69. A. bimaculata, *Daud. Rept.* iv. 62. Iguana strumosa, *Brongn. Class. Rept.* 33, *f.* 4. Dactyloa biporcata, *Weigm. H. Mex.* 47. H. Carolinensis, *Cuv. Dum. et Bib. E. G.* iv. 121.

Nostrils on the muzzle; head elongate, triangular, depressed (flat when young), strongly keeled on each side; head-shields large, keeled, of the orbits larger, in a crescent; nape and back not crested; ears moderate; tail rounded, with a central series of larger more keeled scales above, thick at the base; scales of the back and sides equal, not imbricate, subrhomboidal, keeled, of the belly imbricate, slightly keeled; blue, generally with a large black spot on each temple.

*a—e*. In spirits. Throat black-lined. N. America. Presented by Edward Doubleday, Esq.

The Yellowish Anolis. Anolius flavescens.
Yellowish; back with a flexuous brown band on each side.

*a*. In spirits. N. America?
*b, c*. In spirits. From Mr. Leadbeater's collection.

Richard's Anolis. Anolius Richardii, *Dum. et Bib. E. G.* iv. 141. *Gray, Ann. N. H.* v. 113.
Scales of the middle of the back ovate, keeled, of the sides small, granular, of the tail small, keeled; nape slightly crested; head short; muzzle shelving, with 4 slight crests; bluish grey, crown black, beneath whitish.
*a*. In spirits. Presented by Thomas Bell, Esq.

** *Tail compressed, slightly crested.*

The Dotted Anolis. Anolius punctatus, *Gray, Ann. N. H.* v. 113.

Scales of the back small, 6-sided, keeled, of the sides rather smaller, similar, of the base of the tail keeled; nape scarcely keeled; head depressed; head-shields keeled; blue, white-spotted; belly and hind limbs whitish.

*a, b.* In spirits. Presented by Sir James MacGregor.
*c, d.* In spirits. Brazils. From Dr. Gardner's collection.
*e.* Young, in spirits. With a narrow white streak on each side of the back of the neck, and along the back between the shoulders, and with 2 white-edged angular dark spots on each side of the middle of the back. Brazils. From Dr. Gardner's collection.

The Clouded Anolis. Anolius nebulosus, *Gray, Ann. N. H.* v. 113. Dactyloa nebulosa, *Weigmann, Herp. Mex.* Anolis Sagrei, *Coct. in Sagra, Cuba*, 131, *t.* 10. *Dum. et Bib. E. G.* iv 150.

Scales of the back rather rhombic, subequal, slightly imbricate, indistinctly keeled, of the sides rather smaller, similar, of the vertebral line, tail and limbs larger, keeled, of the belly imbricate-keeled; nape scarcely keeled; tail compressed, with a slight tooth, ed crest above; head short, shelving, shields keeled; pale brown, throat brown-lined; young with a single brown triangular spot on each side.

*a.* In spirits. Cuba. Presented by W. S. MacLeay, Esq.
*b.* In spirits. Texas.

The Lineated Anolis. Anolius lineatopus, *Gray, Ann. N. H.* v. 113.

Scales of the centre of the back small, slightly keeled, of the sides smaller, granular; head elongated; muzzle slightly 4-keeled with strongly keeled scales; pale brown, with 5 longitudinal paler streaks; sides of the tail varied with triangular spots; the throat brown-lined.

*a.* In spirits. Presented by Sir James MacGregor.

The Spotted Anolis. Anolius maculatus, *Gray, Ann. N. H.* v. 113. A. marmoratus, *Gray, B. M.* (not *Dum. et Bib.*)

Scales of the middle of the back 6-sided, keeled, of the sides smaller, of the tail and limbs larger, keeled; nape slightly keeled; head elongated; muzzle shelving, slightly 4-keeled; head-shields elongated, keeled; brown, with transverse white spots or streaks; head white-spotted.

*a, b.* In spirits. W. Indies? Presented by Sir James MacGregor.

The BEAUTIFUL ANOLIS. Anolius pulchellus, *Dum. et Bib. E. G.* iv. 97.

Fulvous; side of head, sides and lower part of body and limbs yellowish white; head long, pyramidical, quadrangular, rather depressed, with 2 longitudinal ridges in front; tail compressed, sharp-edged and feebly toothed above; back and nape not crested; scales of the back tubercular, thick, as if keeled, of the sides small (half the size), subovate, smooth, imbricate, of the belly rounded, rhombic, slightly keeled (of the tail forming continued ridges).

Inhab. Martinique. Mus. Paris, 3 specimens.

The VERMICULATED ANOLIS. Anolius vermiculatus, *Coct. in Sagra, Cuba, Rept.* 140, *t.* 8. *Dum. et Bib. E. G.* iv. 128.

Head long, pyramidical, 4-sided, rather concave above, with 2 feeble ridges in front, and swollen above at the end; scales of the head many-sided, keeled, the supraorbital series separated by 1 or 2 series of scales; scales of the eyebrows small, keeled, of the back and sides in tubercular grains, equal, of the belly imbricate, subovate, keeled; ears large, with 2 rows of 4-sided plates under the chin; nape with a large fold; tail compressed, feebly dentated above; fulvous brown, vermiculated with brown.

Inhab. Cuba. Mus. Paris, 2 specimens.

b. *Ventral scales keeled, square. Tail rather compressed, slightly crested.*

The SLENDER-TOED ANOLIS. Anolius stenodactylus, *Gray, Ann. N. H.* v. 114.

Scales of the middle of the back small, elongated, keeled, of the sides granular; nape slightly double-ridged; muzzle depressed, slightly few-keeled; head-shields irregular; toes very slender; bluish, beneath whitish; tail rather compressed, with a low crest of compressed scales.

*a.* In spirits. Jamaica. Presented by J. E. Winterbottom, Esq.

c. *Ventral scales smooth, subovate. Tail rather compressed, slightly crested.*

The NETTED ANOLIS. Anolius reticulatus, *Gray, Ann. N. H.* v. 114.

Scales of the middle of the back small, angular, keeled, of the sides granular; nape slightly 2-crested; ventral shields subovate; muzzle depressed, slightly 4-keeled; head-shields smooth; blue, black-spotted and varied; throat brown-lined.

*a.* In spirits. Tropical America.

The CHILIAN ANOLIS. Anolius fusco-auratus, *D'Orbigny, Voy. A. M. Rept. t.* 13, *f.* 1—4. *Dum. et Bib. E. G.* iv. 110.

Golden brown, beneath whitish; head rather elongate; muzzle broad, rather rounded; forehead concave; scales of the head subequal, keeled, of back and sides not imbricate, granular, the former largest, of the belly suboval, imbricate, smooth; nape, back and tail not crested; tail slender, rounded or very slightly compressed, with a very feeble keel.

Inhab. Chili. Mus. Paris, 1 specimen.

d. *Ventral scales smooth, 4-sided. Tail rather compressed, slightly crested.*

The BRONZED ANOLIS. Anolius æneus, *Gray, Ann. N. H.* v. 114.

Scales small, elongate, slightly keeled, rather smaller on the sides; nape rounded; muzzle depressed, with a lozenge-shaped impression; head-shields smooth, flat, those between the eyes without any shields between them; golden brown, black dotted; beneath yellowish, brown spotted.

*a.* In spirits. Trop. America. Presented by Thomas Bell, Esq.

The PIKE-HEADED ANOLIS. Anolius Lucius, *Dum. et Bib. E. G.* iv. 105. *Cocteau, Sagra Cuba, Rept.* 136, *t.*

Head short, depressed; muzzle broad, rounded; head-shields small, smooth, subcircular, shields of the suborbital edge very large, especially the two on the frontal region; nape, back and tail not keeled; tail conical, very long; ears very large; eyebrows granular, with a disk of 4 or 5 angular smooth scales; scales of the upper parts equal, not imbricate, subcircular, convex, smooth, of belly 4-sided, smooth, imbricate; blue, with 4 white streaks.

Inhab. Cuba. Mus. Paris, 1 specimen.

GOUDOT'S ANOLIS. Anolius Goudotii, *Dum. et Bib. E. G.* iv. 108.

Head long; forehead slightly concave; head-shields many-sided, smooth, the eyebrow-region, and the suborbital ridge covered with large smooth plates soldered together; ears large; the back and tail not crested; tail very long, very slender, tapering; scales of the back small, rhomboidal, keeled, of the side rather granular, of the belly nearly square, smooth, imbricate; brown, with a pale dorsal streak.

Inhab. Martinique. Mus. Paris, 1 specimen.

The GREEN ANOLIS. Anolius punctatus, *Daud. Rept.* iv. 84, *t.* 66, *f.* 2. *Dum. et Bib. E. G.* iv. 112. A. viridis, *Nieuw. Abbild. t.* —. A. violaceus, *Spix, Braz.* 15, *t.* 17, *f.* 2.

Head very long, depressed, cut square in front, with a lozenge-shaped frontal concavity; scales of the head irregularly many-

sided, swollen, smooth, of the back oblong, very finely granular, smooth, not imbricate, of the belly square, imbricate, smooth; eyebrows with a disk of 16 or 20 small angular scales; nape, back and tail not crested; tail very long and slender, 4-sided, rounded at the base; blue, with a dorsal series of black spots, white-dotted on the sides, and with black specks on the sides of the belly and limbs.

Inhab. Brazils. Mus. Paris, 2 specimens.

The RED-THROATED ANOLIS. Anolius bullaris. Lacerta bullaris, *Linn. S. N.* 368. *Catesby, Carol.* i. *t.* 66. *Lacep. Q. O.* ii. 401. A. chlorocyanus, *Dum. et Bib. E. G.* iv. 117.

Head pyramidical, 4-sided, rather depressed, nearly flat above; scales of the head subequal, not keeled, those over the orbit's edge broader, separated by 1 or 2 series of small scales; ears small; nape and back not crested; the tail thick, rather depressed at the base, then compressed, and slightly dentated above; scales of the back and sides equal, suboval, subgranular, not imbricated, of the central dorsal series rather the largest, of the belly smooth, squarish, 6-sided, imbricate; behind the vent are 2 large flat square smooth plates; greenish blue, uniform.

Inhab. Martinique. Mus. Paris, 1 specimen.

VALENCIENNE'S ANOLIS. Anolius Valenciennii, *Dum. et Bib. E. G.* iv. 131.

Head elongate, depressed, flat above; head-shields flat, smooth; eyebrow with a disk of 4 smooth shields; the plates of the upper orbital ridge soldered together; ears very small; the throat-pouch large; nape and back not crested; scales of the back and sides moderate, equal, oval, rounded, flat and smooth, not imbricate, of the belly 4-sided, smaller than those of the back, flat, smooth, and rather imbricate; tail compressed, serrated above.

Inhab. ——— ? Mus. Paris, 1 specimen, presented by Dr. Leach.

### 27. ACANTHOLIS, *Cocteau.*

Head large, subquadrangular. Head-shields large, angular. Throat with an extensile pouch. Back, nape and tail not crested. Scales of the back and sides flat, smooth, placed side by side, not imbricate, and intermixed with tubercles, of the belly smooth, imbricate. Tail conical, elongate, tapering. Femoral and preanal pores none. Toes unequal, antepenultimate joint dilated, oval, with imbricate plates beneath. Claws 5-5.

The ACANTHOLIS. Acantholis Loysiana, *Cocteau, in Sagra, Cuba*, 141, *t. Comptes Rend.* 1836, 226. *Dum. et Bib. E. G.* iv. 100.

Bluish white, with a series of triangular brown spots on each

side; head ovate, triangular; head-shields large, angular smooth; forehead concave; scales of the back polygonal, flat, smooth, not imbricate, with small scattered tubercles, of the belly imbricate, smooth.

Inhab. Cuba. Mus. Paris.

### 28. Draconura, *Wagler.*

Head quadrangular. Head-shields small, subequal, keeled. Throat with an extensile pouch. Muzzle short. Palate toothed. Femoral pores none. Toes elongate, the last joint but one slightly dilated, lamellar beneath. Scales of the middle of the back larger than those on the sides, of the belly imbricate, keeled. Tail round, very long, slender. Back and nape not crested.

#### * *Back with 2 rows of larger scales.*

The Shining Draconure. Draconura nitens, *Wagler, Syst.* 149. *Gray, Ann. N. H.* v. 114. Anolis refulgens, *Schlegel, Mus. Leyd. Dum. et Bib. E. G.* iv. 91.

Back with only 2 rows of larger scales; muzzle with small oblong strongly keeled scales.

Inhab. Surinam. Mus. Leyden.

#### ** *Back with 4 or 5 rows of larger scales.*

The Golden Draconure. Draconura chrysolepis. Anolis chrysolepis, *Dum. et Bib. E. G.* iv. 94. Draconura Nitzchii, *Weigm. Herp. Mex.* 16?

Back with 4 or 5 series of larger scales; muzzle with hexagonal oblong equal 3-keeled scales; ears very small; green, with a vertebral series of black dots; sides with a brown streak.

*a.* In spirits. W. Indies. Presented by T. Bell, Esq.

### 29. Norops, *Wagler.*

Throat with a small crested pouch. Palate toothed. Femoral pores none. Toes slender, fourth longer than the third, not dilated, with a series of keeled rhomboidal scales on each side, and of smooth imbricate plates beneath. Scales of the body keeled, imbricate, of the sides much smaller, of the belly keeled, imbricate. Back and tail not crested. Tail moderate, not prehensile.

The Golden Norops. Norops auratus, *Wagler, Syst.* 149. *Weigm. H. M.* 16. *Dum. et Bib. E. G.* iv. 82, *t.* 37, *f.* 2. Anolis auratus, *Daud. Rept.* iv. 89.

Head-shields oblong, many-keeled; golden fulvous brown sometimes pale-banded.

Inhab. Guiana, Surinam. Mus. Paris.

II. *Back subtrigonal or depressed.* Terrestrial.

D. *Body subtrigonal, covered with large keeled scales, directed obliquely towards the back. Throat with a cross fold or smooth. Toes simple.* Tropidolepina.

a. *Femoral pores distinct. Cloacal pores none.*

30. TROPIDOLEPIS, *Cuv. R. A.* Sceloporus, part, *Weigmann.* Tropidurus, part, *Wagler.* Uromastyx, part, *Merrem.*

The head short, flattened, rounded in front, with small head-shields, a large interparietal and large superorbital shields. Nostril subapical, on each side, just above the face-ridge, open. Throat smooth, with an oblique plait on each side. Palate toothless. Cheeks with 2 rows of scales. Body depressed, subtriangular. Scales imbricate, of the back keeled, of the belly smooth. Back and tail not crested. Tail thick, short, depressed at the base, round and tapering at the end. Femoral pores distinct. Preanal or cloacal pores none.

* *Head-shields smooth. Scales of the back large, not denticulated.*

The WAVED TROPIDOLEPIS. Tropidolepis undulatus, *Cuv. R. A.* ii. 38. *Gray, Griffith, A. K.* ix. 43. *Dum. et Bib. E. G.* iv. 298. *Hollbrook, N. A. Erp.* iii. 51, *t.* 8. Lacerta undulata, *Bosc MSS. Latr. R.* ii. 40. *Daud. R.* iii. 884. L. hyacinthina, *Green, J. A. N. S. Phil.* i. 349, (male). L. fasciata, *Green, l. c.* i. 349, (female).

Greenish or reddish bronze, with black cross bands; the head-shields smooth; scales of the back large, rhombic, entire-edged; supraorbital shields 5, many-sided, with scales externally; interparietal plate large, oblong or subcordate.

*a—c.* Adult, in spirits. North America. Presented by Jacob Green, M.D.

*d, e.* Adult and young, in spirits. N. America. Presented by Edw. Doubleday, Esq.

** *Head-shields smooth. Scales of the back large, toothed.*

The COLLARED TROPIDOLEPIS. Tropidolepis torquatus, *Gray, Griffith, A. K.* ix. 43. *Zool. Beechey, Voy.* 95, *t.* 30, *f.* 2. *Dum. et Bib. E. G.* iv. 301. Agama torquata, *Green and Peale, J. Acad. N. S. Phil.* ii. 231. *Weigm. H. Mex.* 49, *t.* 7, *f.* 1. *Gravenh. Act. N. Cur.* xviii. 763, *t.* 56, *f.* 6—12. Tecoixin, *Hernand. Mex.* 36—65.

Coppery olive, with white or yellow-edged black collar on the shoulders; scales of the back very broad, rhombic, blunt, toothed on the edge and keeled, ending in a short straight point; interparietal plate moderate, subcordate; chin-shields 5-5.

*a.* In spirits. Mexico. Presented by J. E. Gray, Esq.

Weigmann's Tropidolepis. Tropidolepis formosus, *Dum. et Bib. E. G.* iv. 303. Sceloporus formosus, *Weigm. Herp. Mex.* 50, S. torquatus, jun. *Weigm. H. M. t. 7, f. 2, ♂.*

Yellow, green coppery; males with a plain black scapular sometimes interrupted band; scales of the back rhomboidal, toothed and ending in a large very pointed spine.

Inhab. Mexico. Mus. Berlin.

The Spinose Tropidolepis. Tropidolepis spinosus, *Gray, Griffith, A. K.* ix. 43. *Dum. et Bib. E. G.* iv. 304. Sceloporus spinosus, *Weigmann, Isis*, 1828, 369. *Herp. Mex.* 50, *t. 7, f. 3.*

Olive grey, with series of brown spots; scales of the back rhomboidal, slightly toothed, keeled, and ending in a strong point: frontal shields 8 or 9.

Inhab. Mexico. Mus. Berlin.

The Horrid Tropidolepis. Tropidolepis horridus, *Dum. et Bib. E. G.* iv. 306. Sceloporus horridus, *Weigm. H. Mex.* 50.

Olive, with a grey-edged yellow streak on each side; yellowish beneath; scales very large, rhomboidal, ending in a solid point; frontal disk of 7 plates.

Inhab. Mexico. Mus. Berlin.

The Spotted Tropidolepis. Tropidolepis grammicus, *Gray, Syn. A. K.* ix. 43. *Dum. et Bib. E. G.* iv. 307. Sceloporus grammicus, *Weigm. Isis*, 1828, 369. *Herp. Mex.* 51. S. pleurostictus, *Weigm. Isis*, 1828, 369.

Olive green, with angular black-brown bands across the back; scales of the back large, rhomboidal, pointed, toothed on the edge.

Inhab. Mexico. Mus. Berlin.

**** Head-shields smooth. Scales of the back small, not toothed.*

The Small-scaled Tropidolepis. Tropidolepis microlepidotus, *Dum. et Bib. E. G.* iv. 308. Sceloporus microlepidotus, *Weigm. Herp. Mex.* 51. S. grammicus, var. *Weigm. Isis*, 1828.

Ashy green, with dusky bands and spots; scales of the body small, with short points, entire on the edge; interparietal plate large, cordate (formed of interparietal and 2 occipitals united?); superciliary shields 10, in 2 rows, $\frac{4}{4}$.

*a.* In spirits. Mexico. From the Berlin Museum.

***** Head-shields rugose. Scales of the back toothed.*

The Variable Sceloporus. Tropidolepis variabilis. Sceloporus variabilis, *Weigm. Herp. Mex.* 51. *Dum. et Bib. E. G.* iv. 308.

Olive brown; male with 2 whitish lateral bands, female with transverse brown spots, placed in 2 series upon the middle of the back; supraorbital shields 5, broad, in one row, edged with small

scales; scales of the back rhomboidal, pointed, twice as large as those of the sides; interparietal large, cordate (of interparietal and 2 occipitals united?).

*a*, *b*. In spirits, not very good state. Mexico. From the Berlin Museum.

***** *Head-shields rugose. Scales of the back not toothed.*

The BRONZED SCELOPORUS. Tropidolepis æneus. Sceloporus æneus, *Weigm. Herp. Mex.* 52. *Dum. et Bib. E. G.* iv. 309.

Reddish olive, above coppery; eyelid with scaly plates; scales of the back rhomboidal, ovate, strongly keeled and rather pointed, of the sides rather smaller; interparietal shield rhombic.

Inhab. Mexico. Mus. Berlin, 1 specimen.

The SPOTTED SCELOPORUS. Tropidolepis scalaris, *Gray, Zool. Beechey's Voy.* 95, *t.* 30, *f.* 3. *Dum. et Bib. E. G.* iv. 310. Sceloporus scalaris, *Weigm. H. M.* 52, *t.* 8, *f.* 2.

Ashy brown above, with white-edged black transverse spots, placed in 2 series, a blue spot on the shoulder; scales of the back and sides oval, rhomboidal, nearly equal in size; eyelid covered with 4 or 5 series of keeled scales, the inner curved series largest.

*a*. In spirits. Mexico. From the Berlin Museum.

b. *Femoral pores none. Cloaca with a series of pores in front.*

31. LEIODERA, *Dum. et Bib.* Tropidurus, part, *Weigm.* Proctotretus, part, *Dum. et Bib.*

Head pyramidical, quadrangular, with moderate many-sided smooth not imbricate head-plates and a rather distinct interparietal. Nostril lateral, on the face-ridge. Sides of the neck smooth, without any plait, covered with rhombic imbricate keeled scales. Palate toothed. Ear rather sunk. Cheek with a single row of scales. Infraorbital scales elongate. Body rounded or rather depressed. Scales large, rhombic, imbricate, of upper parts keeled, of belly smooth, of the loins in 8 or 9 longitudinal series. Back and tail not crested. Toes simple, unequal, with 2 rows of shields beneath. Tail long, conical, covered with imbricate rhombic scales. Femoral and preanal pores none. Males with pores upon the front edge of the cloaca.

The CHILIAN LEIODERA. Leiodera Chilensis. Calotes Chilensis, *Lesson, Voy. Coq. Rept. t.* 1, *f.* 2. *Weigm. Act. Nat. Cur.* xvi. 233. *Dum. et Bib. E. G.* iv. 269. *Bell, Zool. Beagle*, 2, *t.* 1, *f.* 1. ? Trop. nitidus, *Weigm. Act. N. Cur.* xvii. 234, *t.* 17, *f.* 2, (very young). *Gravenh. N. Act. Nat. Cur.* xviii. 722, *t.* 54, *f.* 8—10 (head). ? T. olivaceus, *Weigm. l. c.* 268, (var. with a forked streak on nape) ? L. lineatus, *Gravenh. Nov. Act. Acad. Leop.* xviii. 743, *t.* 54, *f.* 1—5. L. marmoratus, *Gravenh. l. c. t.* 54, *f.* 11? L. unicolor, *Gravenh. l. c.* 743?

Dark olive, with pale edges to the scales, and a black keel; head blackish-dotted; beneath yellowish olive or dark green bronzed; scales of the back large, rhombic, elongate, acutely keeled, dagger-pointed; scales of the sides of the neck large, and similar to those of the back, of the tail smaller, of the lower side of the base narrow, smooth; ears with 2 conical scales below, and a broad concave one above, in front; tail round, or slightly polyhedral at the end, tapering.

*a*. Stuffed. N. Chili, Guasco. From M. Bibron's collection.
*b—d*. In spirits. Tail broken or reproduced. N. Chili, Guasco.
*e, f*. In spirits. *e*. Tail reproduced and forked. N. Chili. Presented by Charles Darwin, Esq.
*g*. Young? or var., in spirits. Pale brown, with scattered black spots on the back. Chili. Presented by J. E. Gray, Esq.

Gravenhorst's Leiodera. Leiodera Gravenhorstii.

Pale olive with bluish reflections; back black-varied, generally with a broad central and narrow lateral black streaks; beneath, greenish bronzed; head dark olive, black varied; scales of the back very large, rhomboid, strongly keeled, dagger-pointed, of the sides of neck and nape rather smaller, of the sides larger, nearly smooth, of the tail very large, of the under side of the base of the tail rhombic, and a little way further on, distinctly keeled; tail 6 or 10 angular at the end, from the ridges of the keels of the scales; ears with several small scales in front.

*a, b*. Adult, in spirits. Chili. From Mr. Cuming's collection.
*c, d*. Young. Pale olive, with 7 broad dark streaks. From Mr. Cuming's collection.
*e, f*. Young, in spirits. Pale brown, with interrupted black bands, tail with 3 brown streaks. Chili. Presented by Charles Darwin, Esq.

Proct. Chilensis, var. *Bell, MSS.*

The Slender Leiodera. Leiodera gracilis. Proctotretus gracilis, *Bell, Zool. Beagle, Rept.* 4, *t.* 1, *f.* 2.

Olive, with 2 pale streaks on each side; slender; front edge of the ears minutely 2 or 3 toothed; scales imbricate; of the back small, rhomboidal, flat, with a low keel, not pointed at the tip; of the sides of the throat uniform and similar but rather smaller; of tail more pointed.

*a*. In spirits. Patagonia, Port Desire. Presented by C. Darwin, Esq.
*b*. In spirits. Valparaiso. Presented by C. Darwin, Esq.

See also Proctotrepe mosaique, *H. et J. Voy. à Pol Sud, t.* 2, *f.* 1, not described.

32. Leiolæmus, *Weigmann.* Proctotretus, *Dum. et Bib.*

Head pyramidical, quadrangular, more or less depressed, with moderate, smooth, not imbricate, many-sided shields, with a rather distinct interparietal shield. Sides of neck with small, thick or granular scales, a longitudinal ridge and a cross fold in front of the shoulder. Nostril lateral, just on the face-ridge. Palate toothed. Cheek with 1 (rarely 2) rows of scales. Infraorbital shield elongate. Ear sunk. Eyebrows scaly, with 3 or 4 larger shields. Body roundish. Scales imbricate, of the upper part keeled, of the belly smooth. Back and tail not crested. Tail long, roundish. Toes simple. Femoral and preanal pores none. Males with pores on the front edge of the cloaca.

* *Body without folds on the sides. Scales of the hinder part of the thigh small, subequal, the lower ones rather larger.*

† *Scales of the back elongate, rhombic, with a strong rather produced keel.*

The Blue-bellied Leiolæmus. Leiolæmus cyanogaster. Proctotretus cyanogaster, *Dum. et Bib. E. G.* iv. 273. *Bell, Zool. Beagle*, 12, *t.* 5, *f.* 2, (tail reproduced).

Green, with a yellow streak on each side of the back, beneath blue; ears large, simple in front; scales of the sides of the neck small, rhomboidal, imbricate, keeled, of the back and sides large, lozenge-shaped, with a dagger-pointed keel; of the throat and belly entire; the back of the thighs completely granular.

*a.* Adult, in spirits. Bronzed, black-spotted, tail with a central dark streak above. Chili. Presented by C. Darwin, Esq.

*b.* In spirits. Olive, with a broad pale streak on each side. Valdivia. Presented by C. Darwin, Esq.

Bell's Leiolæmus. Leiolæmus Bellii.

Dark olive, yellow varied; head black, yellow-dotted; beneath greyish; head-shields rather convex; ears with small blunt scales in front; scales rather large, yellow-edged, with a central, strong, rather produced keel, concave on the sides; of the sides of the neck rather large, thick, narrow, keeled; of the temples convex, bluntly keeled; of the tail rhombic, truncated.

*a.* Adult, in spirits. Tail reproduced. Chili. From Mr. Cuming's collection.

Bibron's Leiolæmus. Leiolæmus Bibronii. Proctotretus Bibronii, *Bell, Zool. Beagle, Rept.* 6, *t.* 3, *f.* 1.

Olive, with series of black spots; the tail with a central black streak above; scales of the head smooth, rather convex; of temple and neck rounded, smooth, imbricate; of the neck very small; of the back rhomboidal, keeled, acuminated behind; of abdomen entire; ears oval, front one toothed; cheek-scales in 1 series; the hinder face of the thigh entirely granular.

*a*. In spirits. Port Desire. Presented by Charles Darwin, Esq.
*b*. In spirits. Darker, throat dark marbled, belly black-spotted. Chili. From Mr. Cuming's collection.

The Lineated Leiolæmus. Leiolæmus lineatus.

Olive, with 3 or 5 narrow interrupted black streaks; the head black-varied; back with small yellow spots, forming short transverse spots on the sides; tail with pale rings; scales of the back and sides rhombic, flat, with a distinct central keel ending in an acute tip; of the sides of the neck moderate, rhomboidal, keeled; of the throat and belly entire; back of the thighs uniformly granular; ears oblong, granular in front.

*a*, *b*. In spirits. Chili. From Mr. Cuming's collection.

The Black-spotted Leiolæmus. Leiolæmus nigromaculatus, *Weigm. Act. Nat. Cur.* xvii. 229. Proctotretus nigromaculatus, *Dum. et Bib. E. G.* iv. 281. *Bell, Zool. Beagle*, 10, *t.* 4, *f.* 2.

Grey fulvous, with 2 series of angular black spots on each side of the back; a large black spot on each scapular; hinder part of the thighs black-dotted; scales of the sides of the neck very thick, rhomboidal; of the back and sides rather larger, rhomboidal, with a dagger-pointed keel; of the throat and belly often nicked; ears large, broad, toothed in front; cheek-scales 1-rowed.

*a*. In spirits. Chili, Coquimbo. Presented by C. Darwin, Esq.

The Inconspicuous Leiolæmus. Leiolæmus inconspicuus, *Gray, B. M.* 1836.

Pale brown, slightly black-varied, (perhaps bleached); scales of the sides of the neck triangular, smooth, of the middle longitudinal fold larger, thicker, prominent, of the upper part smaller, convex, of the lower part thinner, broader; of the front of the shoulder granular; of the back rhombic, keeled, rather dagger-pointed; of the hinder side of the thigh minute, uniform, granular; of the belly thin, often bifid.

*a*. In spirits. Chili. Presented by J. E. Gray, Esq.

†† *Scales with a slight or indistinct (not produced) keel.*

The Painted Leiolæmus. Leiolæmus pictus. Proctotretus pictus, *Dum. et Bib. E. G.* iv. 276. *Voy. à Pol Sud. t.* 2, *f.* 1. *Bell, Zool. Beagle, Rept.* 5, *t.* 2, *f.* 1, 2. L. bistriatus, *Gray, B. M.* 1836.

Olive, black-varied and white-dotted, with a broad pale streak on each side of the back; beneath yellow, blue on the chin and sides, and black-dotted; the ears large, granular in front; cheek-scales in one row; eyebrow-shields 4 or 5; sides of the neck and hinder part of the thigh with small flat scales, the lower scales

rather the largest; scales of back moderate, rhomboidal, strongly keeled; of the sides nearly smooth; of the throat and belly entire.

*a*. In spirits. Green. Chili, Valparaiso. Presented by Charles Darwin, Esq.

*b*, *c*. In spirits. Chili. Presented by J. E. Gray, Esq.

The Dotted Leiolæmus. Leiolæmus tenuis. Proctotretus tenuis, *Dum. et Bib. E. G.* iv. 279. *Voy. à Pol. Sud. t.* 2,* *f.* 2. *Bell, Zool. Beagle, Rept.* 7, *t.* 3, *f.* 2. L. punctatus, *Gray, B. M.* 1836.

Olive, black and green dotted, back with 2 series of short arched black cross bands; head pyramidical; ears large, with a prominence on the front edge; the eyebrows scaly, with 4 squarish shields; cheek-scales in one series; sides of neck and the hinder part of the thighs granular; scales of the back small, rhomboidal, blunt, feebly keeled; of the sides smaller, smooth, entire.

*a*, *b*. In spirits. Olive, with interrupted brown arched cross bands, partly bleached. Valparaiso. Presented by Charles Darwin, Esq.

L. tenuis, *Bell.*

*c*. In spirits. Olive, green and black dotted. Chili, Valparaiso. Presented by Charles Darwin, Esq.

L. pictus, *Bell, MS. B. M. ? part, Bibron.*

*d*—*f*. In spirits. Olive, green and black dotted, forehead-shields small. Chili. Presented by J. E. Gray, Esq.

*g*, *h*. Like *d* and *e*, but forehead-shield larger. Chili. Presented by J. E. Gray, Esq.

*i*, *j*. Adult, in spirits. Very large, discoloured, blackish. Chili. From Mr. Cuming's collection.

The Hebrew-marked Leiolæmus. Leiolæmus signifer. Proctotretus signifer, *Dum. et Bib. E. G.* iv. 288, *t.* 39, *f.* 2. *Bell, Zool. Beagle*, 8, *t.* 4, *f.* 1.

Fulvous grey, with 4 series of letter-like black marks; head short; ears rather small, with 2 small tubercles on the lower part of the front; cheek-scales in 1 (or 2?) rows; scales of the back small, numerous, rhomboidal, rounded behind, flatly keeled and not pointed; of the sides smooth, rather convex; of the throat and belly not nicked; of the hinder part of the thighs uniformly granular.

Inhab. Peru. Mus. Paris, 1 specimen.

The Small-scaled Leiolæmus. Leiolæmus maculatus. Tropidurus maculatus, *Gray, B. M.* 1836.

Olive, with cross series of black-edged white spots; head rather depressed, shields smooth, flat; superciliary shields 5-5, many-sided; interparietal plate roundish, distinct, with 2 pair of rather larger occipital plates behind it; cheek-scales 1-rowed; ear with a prominence on the front edge; scales of the back small, rhombic,

keeled, placed nearly in longitudinal series; of the side smaller, granular; of the belly small, smooth; of the hinder part of the thighs uniform, granular; preanal pores 4.

*a.* In spirits, young. Peru. Presented by J. E. Gray, Esq.

** *Body not folded on the side. Hinder side of the thighs granular, with a roundish group of larger keeled scales.*

Fitzinger's Leiolæmus. Leiolæmus Fitzingerii. Proctotretus Fitzingerii, *Dum. et Bib. E. G.* iv. 286. *Bell, Zool. Beagle,* 11, *t.* 5, *f.* 1.

Grey brown, with 4 series of white-edged black spots; head short, muzzle narrow, rounded; ears large, with 2 or 3 large and other small tubercular granules on the front edge; cheek-scales 1-rowed; sides of the neck and part of the back of the thigh granular; scales of back moderate, rhomboidal, blunt, very slightly keeled; of the sides smooth; of the throat and belly entire.

*a.* In spirits. Tail reproduced. Patagonia. Presented by C. Darwin, Esq.

Darwin's Leiolæmus. Leiolæmus Darwinii. Proctotretus Darwinii, *Bell, Zool. Beagle, Rept. t.* 7.

Body rather depressed; scales of the head numerous, small, slightly elevated, smooth, not imbricate; of the temple and neck granular; cheek-scales 1-rowed; hinder side of the thigh granular (hinder) part covered with imbricate scales; ears entire in front.

*a, b.* In spirits. N. Patagonia, Bahia Blanca. Presented by Charles Darwin, Esq.

*** *The Body with a distinct longitudinal fold on each side.*

Capt. King's Leiolæmus. Leiolæmus Kingii. Proctotretus Kingii, *Bell, Zool. Beagle, Rept.* 13, *t.* 6, *f.* 12. Pr. Magellanique, *H. & J. Voy. à Pol Sud, t.* 2, *f.* 2, (young).

Grey, with 4 series of square blackish spots, separated by 4 or rarely 5 streaks, the spots sometimes confluent; throat black-lined; scales of the back moderate, ovate, rhombic, with a distinct straight scarcely produced keel; of the sides of the neck rather thick, round; of the front edge of the ears small, with sometimes one larger one below; of the tail ovate-rhombic, keeled, with the hinder edge rounded; the sides with an obscure lateral longitudinal fold; cloacal pores 6, in pairs; thighs uniformly granular behind.

*a, b.* Adult, in spirits. Brown, with irregular cross bands and a central pale streak. Patagonia, Port Desire. Presented by Thomas Bell, Esq. From Capt. King's collection.

*c—g.* Young, in spirits. Back with 3 or 5 pale streaks and 4 series of square brown spots; the ears with a larger tubercle in front. Patagonia. Presented by Charles Darwin, Esq.

Weigmann's Leiolæmus. Leiolæmus Weigmannii. Proctotretus Weigmannii, *Dum. et Bib. E. G.* iv. 284. *Bell, Zool. Beagle, t.* 8, *f.* 12.

Greyish, with a fulvous streak between 2 series of angular black spots; a white-edged black streak on each thigh; the head rounded; muzzle rounded, blunt; the ears moderate, granular in front; nostrils rather superior; cheek-scales 2-rowed; back of the thighs granular, with scales near the base of the tail like those of the under part; scales of the back moderate, rhomboidal, dagger-pointed, keeled; of the throat and belly entire, not nicked; thigh granular, with a group of large scales behind.

*a, b.* In spirits. Bahia Blanca. Presented by Charles Darwin, Esq.
*c.* In spirits. Peru. Presented by J. E. Gray, Esq.
*d.* In spirits. Monte Video. Presented by C. Darwin, Esq.
*e.* In spirits. Maldonado. Presented by C. Darwin, Esq.

33. Ptygoderus. Proctotretus, part, *Dum. et Bib.*

Head rather depressed, covered with equal, rhomboidal, keeled plates. Throat with a fold on each side. Palate toothed. Nostrils lateral on the face-ridge. Ears sunk, toothed in front. Cheek-scales 1-rowed. Body with a crest of compressed scales on each side. Scales of the upper parts keeled, of the belly smooth. Back and tail not crested. Tail roundish, tapering. Toes simple. Femoral pores none. Males with pores on front of cloaca.

The Ptygodere. Ptygoderus pectinatus. Proctotretus pectinatus, *Dum. et Bib. E. G.* iv. 192. *Bell, Zool. Beagle*, 18, *t.* 9, *f.* 2.

Fulvous grey, with 3 series of large white-edged black oval spots, head with 3 white cross lines; ears moderate, toothed in front; labial plates very narrow; scales of the sides of the throat, back and sides rhomboidal, keeled, imbricate.

*a—c.* In spirits. Presented by Charles Darwin, Esq.

34. Proctotretus, part, *Dum. et Bib.*

Head depressed, broad, covered with numerous, very small, smooth, many-sided head-shields. Interparietal plate very small, surrounded with very small plates. Nostrils superior, subapical, on each side, just above the face-ridge. Throat granular, and with a fold on the sides. Ears sunk. Cheeks with 3 or 5 series of small scales between the lip-shields and the elongated infra-orbital shield. Body depressed, simple, scales rhombic, imbricate, of the belly smooth. Back and tail not crested. Toes simple. Tail elongate. Femoral and preanal pores none. Males with small pores on the front edge of the cloaca.

The PROCTOTRETE. Proctotretus multimaculatus, *Dum. et Bib. E. G.* iv. 290. *Bell, Zool. Beagle*, 17, *t.* 9, *f.* 1.

Grey, with crowded black dots; ears very small, simple; sides of the neck and hinder part of the thighs completely granular; scales of the back small, numerous, lozenge-shaped, distinctly keeled, not dagger-pointed; of the sides smooth; of the throat and belly entire.

*a*—*c*. Adult and young, in spirits. Bahia Blanca, Patagonia. Presented by Charles Darwin, Esq.

c. *Femoral and anal pores none.*

† *Interparietal plate small, linear. Head-shields regular.*

35. LEIOCEPHALUS, *Gray*. Holotrophis, *Dum. et Bib.* Tropidurus, part, *Fitz*. Pristinotus, *Gravenh.*

Head pyramidical, quadrangular. Nostrils lateral, upon the face-ridge. Head-shields moderate, angular, oblong, nearly equal, with a small interparietal and transverse supraocular shields, and 4 frontal shields between the eyes. Palate toothed. Ears toothed in front. Neck smooth below, irregularly plaited on the sides, and with an oblique plait in front of each shoulder. Body and tail 3-sided, covered with imbricate, keeled, sharp-pointed scales, placed in oblique lines, converging towards and forming the dorsal crest. The outer edge of the 2 or 3 first hinder toes toothed. Femoral and preanal pores none.

Does not change colour nor dilate its throat; twists its tail spirally.

* *Ventral scales keeled.*

HERMINIER'S ROQUET. Leiocephalus Herminieri. Holotrophis Herminieri, *Dum. et Bib. E. G.* iv. 261, *t.* 44.

The dorsal crest high, compressed; scales of the belly keeled; tail strongly compressed.

Inhab. Martinique. Mus. Paris.

** *Ventral scales smooth, torn on the edge.*

† *Eyebrow-dish covered with broad shields.* Leiocephalus.

The KEELED ROQUET. Leiocephalus carinatus, *Gray, Phil. Mag.* 1837, ii. 208.

Dorsal-crest moderate, low in front, higher on the loins and base of the tail; tail much compressed, distinctly crested; olive, sides blackish-varied; tail dark-ringed; muzzle with 2 pair of small equal, and some smaller central scales in front of the larger oblong longitudinal frontonasal pair; scales of the nape smaller than those of the back, in 15 series; of the belly smooth, torn on the edge; head-shields smooth, the interparietal elongate, linear.

*a*. In spirits. West Indies.

The Cuban Roquet. Leiocephalus MacLeayii. L. carinatus, *Gray, Ann. N. H.* Roquet, *MacL. Trans. Zool. Soc.* i. 183.

Dorsal crest moderate, low, equal, on the back, loins and tail; tail compressed, brown-ringed; olive, with indistinct, pale, cross bands; muzzle with 2 pair of moderate transverse scales in front of the pair of large broad squarish frontonasal plates, the interparietal plate triangular; scales of the back large, rhombic, keeled; of the nape nearly equally large, in 11 series; of the belly smooth, torn on the edge.

*a.* Adult, in spirits. Head-shields with longitudinal ridges. Cuba. Presented by W. S. MacLeay, Esq.

*b.* Half-grown, in spirits. Head-shields smooth. Cuba. Presented by W. S. MacLeay, Esq.

Schreiber's Roquet. Leiocephalus Schreibersii. Tropidurus Schreibersii, *Fitz. Verz.* 49. *Gravenh. Act. Nat. Cur.* xviii. 739, *t.* 54, *f.* 15, 16, (head). Holotrophis microlophus, *Cocteau, Sagra, Cuba, Rept. t.* 5. *Dum. et Bib. E. G.* iv. 264. Lion Lizard, *Catesby, Carol.* ii. *t.* 68. Tropidurus Leiolæmus Cubensis, *Gray, Ann. N. H.* v. 110.

The dorsal and caudal crest very small, equal; head-shields longitudinally rugose; tail roundish, slightly compressed; scales thin, keeled, moderate; ventral scales scarcely larger, not keeled; fulvous brown, with 2 pale streaks on each side.

*a.* In spirits. Cuba. Presented by W. S. MacLeay, Esq.

†† *Eyebrow-disk with scales in front and larger shields behind.*
Holotrophis.

Gray's Roquet. Leiocephalus Grayii, *Bell, Zool. Beagle, Rept.* 21, *t.* 13, *f.* 1.

Dorsal crest compressed, of the back and tail equally high; tail rather compressed; the ears 4-toothed in front; eyebrow-disk with imbricate scales in front and 4 band-like shields behind; head-shields convex, smooth; interparietal plate sunken, united to the surrounding plates; olive, black-spotted; scales of the back broad, short, rhombic, dagger-pointed; of the nape smaller; of the belly rhomboidal, smooth, torn on the edge.

*a.* In spirits. Charles Island, Galapagos. Presented by Charles Darwin, Esq.

*b.* Adult, in spirits. With a pale streak on each side. Galapagos. Presented by Charles Darwin, Esq.

*c—e.* Half-grown, in spirits. Scales of neck less dagger-pointed. Galapagos. Presented by Charles Darwin, Esq.

*f.* Very young, in spirits. Pale olive, with a paler streak on each side and a dark one above. Galapagos. Presented by Chas. Darwin, Esq.

††† *Eyebrow-disks covered like the crown with keeled scales.*
Pristinotus.

The SHOULDER-SPOTTED ROQUET. Leiocephalus ornatus.

Olive, yellow-varied, back with black cross bands and a large black spot in front of each shoulder; crest of the back and tail high, compressed, equal; tail compressed; head-shields small, unequal, keeled; eyebrows covered with 1 or 2 keeled scales like the head; interparietal plate small; scales of the back broad, short, rhombic, dagger-pointed.

*a.* In spirits. Guayaquil, Trop. America.

36. STENOCERCUS, *Dum. et Bib.*

Head depressed, triangular, elongate, covered with small equal scales, a distinct interparietal plate, and many longitudinal rows of supraocular shields. Palate toothed. Nostrils rather lateral, directed backwards. Throat without any cross plait. Neck with a longitudinal fold on each side, and a curvilinear fold before each shoulder. Body rather elongate, rather 3-sided, with a very small toothed crest. Scales imbricate, of the back keeled, placed in oblique lines, of the belly smooth. Tail long, compressed, with whorls of large spinose scales. Femoral pores none.

The STENOCERE. Stenocercus roseiventris, *D'Orbigny, Voy. A. M. Rept. t.* 4, *f.* 1—3. *Dum. et Bib. E. G.* iv. 350.

Edge of the ear not toothed; dark brown above, rosy beneath.

Inhab. Bolivia. Mus. Paris, a single specimen.

37. TRACHYCYCLUS, *Dum. et Bib.*

Head pyramidical, quadrangular, flattened, covered with nearly equal plates, interparietal very small. Nostril rather lateral. Palate not toothed. Neck with a plait on each side, and a fold in front of each shoulder. Body nearly round. Scales of back moderate, imbricate, keeled, in converging lines, of the belly smooth. Nape, back and tail not crested. Tail moderate, subconic, slightly depressed at the base, surrounded with whorls of spines. Toes toothed on the sides. Femoral pores none.

The TRACHYCYCLUS. Trachycyclus marmoratus, *D'Orbigny, Voy. A. M. Rept. t.* 4, *f.* 4—8. *Dum. et Bib. E. G.* iv. 356, *t.* 391, *f.* 1.

Inhab. Brazil, Rio Grande. Mus. Paris, 1 specimen.

†† *Interparietal plate large. Back or tail crested.*

38. TARAGUIRA. Ecphymotes, *Cuvier*, not *Fitz.* Tropidurus, part, *Wied., Wagler, Weigm., Gravenh.* Oplurus, part, *Gray.* Platynotus, *Wagler ?*

Head triangular, depressed, covered with unequal plates, with a moderate rather large interparietal scale, rather small occipital,

and moderate supraorbital shields. Nostrils anterior, just above the face-ridge, directed backwards. Neck with a cross fold below and 2 stronger ones on each side. Palate toothed. Cheek with 1 row of unequal scales. Body rather elongate, depressed, with small imbricate scales, not folded on the sides. Scales of the back keeled, converging to the dorsal line; of the belly smooth. Back not crested. The tail long, strong, conical, with imbricate keeled scales and a slight compressed crest. Limbs moderate. Femoral pores none.

** Tail roundish, with a slight crest above.*

The TARAGUIRA. Taraguira torquata. Stellio torquatus, *Weid. Abbild. t.* *Gray, Griff. A. K.* ix. 41. *Schinz, Rept.* 89, *t.* 39, *f.* 1. *Dum. et Bib. E. G.* iv. 344. *Gravenh. Act. Nat. Cur.* xviii. 754, *t.* 56, *f.* 13–18, (head). Agama tuberculata, *Spix, Braz.* 12, *t.* 15, *f.* 1. *Guerin, Icon. Rept. t.* 12, *f.* 2. A. hispida, *Spix, Braz.* 12, *t.* 15, *f.* 2. A. nigricollaris, *Spix, Braz.* 13, *t.* 16, *f.* 2. A. Cyclurus, *Spix, Braz.* 14, *t.* 17, *f.* 1. A. taraguira, *Licht. Doubl.* 101.

Olive, black-spotted and varied with a pale streak on each side of the back, and a broad white-edged black band on each side of the neck; scales of the back of the neck and back rather small, keeled; of the base of the tail larger; of front of ear-hole narrow rather elongated, subequal; tail very slightly compressed, with a central series of rather more keeled scales above.

*a, b.* In spirits. Ears with 6 triangular scales in front. Brazils. Presented by Lord Stuart.

*c, d.* In spirits. Ears with 6 or 7 triangular scales. Brazils. From Dr. Gardner's collection.

*e–g.* In spirits.

*h.* In spirits. Rio Janiero. Presented by Charles Darwin, Esq.

*i.* Stuffed. Brazils. Presented by Mrs. Parker.

Agama semitæniata, *Spix, Lac. Braz. t.* 16, *f.* 2, on which Wagler established his genus *Platynotus*, appears to be allied to this species, but I have not seen the specimen, nor is it referred to by Dumeril and Bibron, nor seen by Weigmann.

*** Tail rather compressed, distinctly crested.*

DARWIN'S TARAGUIRA. Taraguira Darwinii.

Olive, pale-spotted, with irregular black cross bands on the sides; the bands in front of the shoulders most distinct (but not white-edged); scales of the nape and back moderate, rather small, keeled, especially at the tip, which is rather produced; of the tail larger; on front of the ear-hole broad, short, irregular, unequal; tail rather compressed, with a central series of very compressed keeled scales above, forming a low crest; head rather elongated.

*a, b.* In spirits. Brazils, Abrolhos Inlet. Presented by Charles Darwin, Esq.

SMITH'S TARAGUIRA. Taraguira Smithii.

Olive-green, with black cross-bands on each side, the 1 in front of the shoulders rather the broadest, (not white-edged); scales of the neck and back larger keeled, the keels forming distinct ridges, of the tail larger; of the front of the ear-hole broad, short, unequal; tail compressed, higher than broad, with a distinct central ridge of rather more keeled scales.

*a—c.* In spirits. Tail thick (males?), under side of thighs and preanal space blackish. Brazil.

*d—f.* In spirits. Tail more slender, under side of thighs and the space before the vent blackish. Pernambuco. Presented by J. P. G. Smith, Esq.

*g.* In spirits. Tail wanting, under side of thighs and space in front of vent yellow. Brazils. Presented by C. Darwin, Esq.

39. MICROLOPHUS, *Dum. et Bib.* Tropidurus, part, *Weigm.*

Head subpyramidical, quadrangular, depressed, covered with unequal flat subsymmetrical plates a dilated interparietal and band-like supraorbital shields. Nostrils lateral, rather tubular, just above the face-ridge. Palate toothed. Ear toothed in front. Neck with many cross folds, and an arched fold on each shoulder meeting on the chest. Body elongate, rather rounded, with 2 obscure folds on each side. Scales subimbricate, of the back moderate, feebly keeled or smooth, of the belly smooth. Nape, back and tail with a very low toothed or tubercular crest. Tail long, subconical, rather larger, covered with rhombic keeled pointed rather whorled scales. Femoral pores none. Toes 5-5, unequal, denticulated, clawed.

The MICROLOPHE. Microlophus Peruvianus. Stellio Peruvianus, *Lesson, Voy. Coq. Rept. t.* 2, *f.* 1, (var. C. *Dum.*) Lophyrus Araucanus, *Lesson, Voy. Coq. Rept. t.* 2, *f.* 1, (var. B. *Dum.*) Tropidurus microlophus, *Weigm. Bonn Trans.* xvii. 223, *t.* 16, (var. A. *Dum.*) T. heterolepis, *Weigm. l. c.* 225, *t.* 17, *f.* 1, (var. D. *Dum.*) Mi. Lessonii, *Dum. et Bib. E. G.* iv. 336.

Olive, black speckled and varied, or with a black or white side streak; dorsal crest toothed, or tubercular and rudimentary.

*a, b.* Young, in spirits. Peru, Copiapo and Iquique. Presented by Charles Darwin, Esq.

40. OPLURUS, *Cuvier.* Uromastyx, *Pr. Max.*

Head triangular, rather elongate, covered with moderate-sized plates; a moderate interparietal plate, and many small supraocular, placed in several series. Nostrils rather lateral, tubular. Palate toothed. Ears sunk, toothed in front. Neck with a cross fold on the chest, going over the shoulder, and sometimes preceded by

2 others, and with a very small nuchal crest above. Body short, broad, angular. Scales large, rhombic, keeled. Tail moderate, conical, with whorls of large strong spinose scales. Femoral pores none.

The Brazilian Oplurus. Oplurus Braziliensis. Cordylus Braziliensis, B. *Laur. Syn.* 32. *Seba*, i. 152, *t.* 97, *f.* 4. *Shaw, Zool.* iii. *t.* 69. Uromastyx cyclurus, *Merrem, Tent.* 56. Oplurus torquatus, *Cuv. R. A.* ii. 46. O. Sebæ, *Dum. et Bib. E. G.* iv. 361. Tropidurus Cuvieri, *Gray, Griff. A. K.* ix. 41. *Weigm. H. Mex.* i. 18.

Scales of the back keeled; front edge of the ear toothed; olive, with a black band across the shoulders.

*a.* Adult, in spirits. With 3 cross bands, the front one narrower. Brazils. Presented by Capt. Sir Edward Belcher.

*b.* Adult, in spirits. With only 1 (the central) cross band. Brazil.

*c.* Young, in spirits. Back with black cross bands, the front 2 white-edged behind. Brazil. Presented by Capt. Sir Edward Belcher, R.N.

### 41. Strobilurus, *Weigm.*

Head depressed, with numerous flat shields, with a large interparietal plate, surrounded by many small shields. Nostrils round, above the obscure face-ridge, in the middle of an oblong nasal shield. Eyebrows covered with small flat shields. Palate not toothed. Ear nearly superficial, front edge toothed. Neck with an oblique plait before each shoulder, branching into many small plaits on each side of the neck. Body rather 3-sided, scales moderate, imbricate; of the back keeled, forming oblique lines converging to the dorsal line, which has a low denticulated keel; of the belly smooth. Tail moderate, covered with large spine-bearing scales, depressed at the base, and with 7 series of spines above and large spines beneath, rather compressed at the end. Femoral pores none. Toes slender, unequal, with a series of denticulated keeled scales beneath.

The Strobilurus. Strobilurus torquatus, *Weigm. H. Mex.* 18. *Dum. et Bib. E. G.* iv. 354.

Olive; head and neck black varied, with a broad black cross band on each side, in front of the shoulder; tail depressed, and with 7 longitudinal series of large spinose scales above; the head-shields small, smooth.

*a.* Stuffed. Brazils. Presented by Mrs. Parker.

### 42. Uraniscodon, part, *Kaup.* Uperanodon, *Dum. et Bib.* Plica, *Gray.* Hypsibatus, *Wagler.* Calotes, *Schinz.*

Head short, rounded in front, covered with unequal plates; occipital plate large; superocular shields large. Nostrils lateral.

Palate toothless. Throat with a slight longitudinal and distinct hinder cross fold. Body subtriangular, not plaited on the sides. Back covered with rhombic imbricate scales, obliquely directed towards the dorsal line, and slightly crested. Tail moderately long, rounded, not crested. Femoral pores none. Toes fringed with small acute scales on the outer side.

* *Scales of body keeled.* Uraniscodon.

The Uraniscodon. Uraniscodon umbra, *Kaup. Bull. Sci.* Lophyrus ochrocollaris, *Spix, Braz.* 10, *t.* 12, *f.* 2. *Dum. et Bib. E. G.* iv. 248. Lacerta umbra, *Linn. S. N.* 367?

Scales of the body keeled; back with 7 brownish cross bands.

*a.* Adult, in spirits. Rather bleached. S. America.

*b.* Very young, in spirits. Pernambuco. Presented by J. P. G. Smith, Esq.

** *Scales smooth.* Uperanodon.

The Painted Uraniscodon. Uraniscodon pictum, *Kaup.* Agama picta, *Nieuw. Abbild. t. Schinz, Rept.* 86, *t.* 25, *f.* 2. *Gray, Griff. A. K.* 40. *Dum. et Bib. E. G.* iv. 251. Lophyrus panthera, *Spix, Braz.* 11, *t.* 13.

Scales of the body smooth; back with 5 blackish cross bands; palate ———?

Inhab. Brazils.

43. Plica, *Gray.* Hypsibatus, *Wagler.* Lophyrus, *Gray.* Hypselopus, *Gravenh.* Uraniscodon, part, *Kaup.*

Head depressed, rounded in front, covered with unequal scales, a large interparietal and superocular plates. Nape and ears with tufts of spine-like scales. Nostrils lateral. Palate toothed. The throat with a longitudinal and more distinct hinder transverse folds. Body rather depressed, with 2 longitudinal folds on each side. Back slightly crested, and covered with imbricate keeled scales. Tail rounded or compressed. Femoral pores none.

The Plica. Plica umbra, *Gray, Griff. A. K.* ix. 41. *Seba,* ii. *t.* 76, *f.* 5? Iguana Chalcidica, *Laur. Syn.* 48? I. umbra, *Latr. Rept.* i. 263. *Daud. R.* iii. 375. *Cuv. R. A.* ii. 37. *Harlan,* 63. I. plica, *Merrem, Tent.* 55. *Gravenh. Act. Nat. Cur.* xviii. 771, *t.* 56, *f.* 1—5. Lophyrus agamoides, *Gray, Phil. Mag.* 1837, ii. 208. *Griffith, A. K.* ix. *t. Dum. et Bib. E. G.* iv. 254.

Tail rounded; back fulvous-brown, marbled with black transverse bands.

*a.* In spirits. N. America? Georgia?

The Dotted Plica. Plica punctata. Hypsibatus punctatus, *Dum. et Bib. E. G.* iv. 258.

Tail strongly compressed, with a toothed crest above; head-shields numerous; grey, with white spots above, beneath whitish.

Inhab. Tropical America. Mus. Paris.

E. *Body depressed, with small scales. Back scarcely crested. Tail conical.* Phrynosomina.

a. *Scales of body and tail small, uniform.*

44. Leiosaurus, *Dum. et Bib.*

Head short, depressed, covered with very small flat or convex scales, the interparietal small, indistinct Eyes edged with small scales beneath. Back and tail not crested. Tail short, rounded, thick at the base, end slender, covered with small scales like the back. Palate toothed. Femoral pores none. Toes 5-5, short, thick, subcylindrical, furnished below with a row of smooth or keeled scales. Claws nearly straight.

* *Scales under the toes small. Toes not fringed.* Leiosaurus.

Bell's Leiosaurus. Leiosaurus Bellii, *Dum. et Bib. E. G.* iv. 242, *t.* 39, *f.* 1.

Back with a series of angular black spots, each formed of 3 spots more or less united, the central spot being the largest; the scales under the toes narrow, keel-less; toes not fringed on the edge.

*a.* In spirits. S. America. Presented by Thos. Bell, Esq., from the collection of Capt. P. P. King.

** *Shields under the toes broad, 2 or 3 keeled. Toes fringed.* Ptenodactylus.

The Banded Leiosaurus. Leiosaurus fasciatus, *D'Orbigny, Voy. Amer. Merid. Erp. t.* 3, *f.* 6, 7. *Dum. et Bib. E. G.* iv. 244.

Back with broad black bands; toes very finely fringed on the inner side; scales under the toes very broad, 2 or 3 keeled; interparietal plates very small.

Inhab. S. America. Mus. Paris.

45. Diplolæmus, *Bell.*

Head short, broad, subtriangular, covered with small rounded not imbricate scales. Ears small, ovate, front edge smooth. Eyes with a large arched plate beneath. Nostrils large, rounded. The neck with a transverse plait below and folds on the sides. Body rather depressed, not crested, with very small, smooth, convex, scarcely imbricate scales; belly with flat smooth scales. The tail round, short, smooth. Feet strong, robust. Femoral and preanal pores none. Palate toothless.

Darwin's Diplolæmus. Diplolæmus Darwinii, *Bell, Zool. Beagle, Rept.* 20, *t.* 10.

Scales of the head convex; tail rather longer than the body and head.

*a*, *b*. Young and adult, in spirits. Patagonia, Port Desire. Presented by Charles Darwin, Esq.

Bibron's Diplolæmus. Diplolæmus Bibronii, *Bell, Zool. Beagle*, 21, *t.* 21.

Scales of the head flat; tail shorter than the body and head.

*a*, *b*. S. America. Chili. Presented by Thomas Bell, Esq. (from the collection of Capt. P. P. King, R.N.)

*c*, *d*. Adult. Chili. Presented by Charles Darwin, Esq.

*e*. Young. Chili. With no large but equal small scales under the orbit. Presented by Charles Darwin, Esq.

b. *Scales of back small, of tail larger, whorled.*

46. Tropidurus, part, *Schinz*. Oplurus, part, *Dum. et Bib.* Uromastyx, *Nieuwied.*

Head triangular, short, thick, covered with moderate-sized plates; interparietal plate moderate, oblong. Eyebrow-scales small, many-rowed. Nostrils lateral, tubular. Nape-crest formed of conical tubercles. Throat lax, with 2 folds behind, and a plait in front of the shoulders. The ear small, rather tubercular in front. Body depressed. Back not crested. Scales of the back smooth, convex, transverse, rhomboidal, not imbricate, of the sides rather smaller. Tail conical, tapering, with rings of large spinose scales. Cheek-scales 2-rowed.

The False Quetz Palea. Tropidurus cyclurus. Uromastix cyclurus, *Wied. N. Act. Nat. Cur.* xiv. 127, *t.* 15. Tropidurus torquatus, *Schinz, Rept.* 90, *t.* 29, *f.* 1. O. Maximiliana, *Dum. et Bib. E. G.* iv. 365.

Scales of the back convex, smooth; the front edge of the ear not toothed; olive, with a black angular band across the shoulders.

Inhab. Brazils. Mus. Paris.

47. Uranocentron, *Kaup., Wagler, Weigm.* Uromastyx, part, *Merrem.* Doryphorus, *Cuvier.*

Head short, triangular, flat in front, with many nearly square, small, polygonal scales, and a large interparietal plate. Palate toothless. Nasal plates nearly lateral, swollen. Throat with a double plait. Ears not toothed. Body short, depressed, longitudinally folded on the sides, with small, imbricate, smooth scales, and no dorsal crest. Tail rather elongate, broad, flat, surrounded with whorls of large spinous scales. Femoral pores none.

The Doryphore. Uranocentron azureum. Lacerta azurea, *Linn. S. N.* 362. *Seba*, ii. *t.* 62, *f.* 6. *Daud. R.* iv. 36. *Cuv. R. A.* ii. 34. *Guérin, Icon. Rept. t.* 6, *f.* 3. *Dum. et Bib. E. G.* iv. 371, *t.* 42, *f.* 2. Stellio brevicauda, *Latr. Rept.* ii. 29, *t. f.* 1. *Daud. R.* iv. 40, *t.* 47.

Azure, with black cross bands, and with black netted lines on the limbs.

Inhab. Brazils. Mus. Col. Surg., Mus. Paris.

48. Phrymaturus, *Gravenh.* Centrura, *Bell.*

Head short, triangular, covered with small, round, not imbricate scales. Ears large, with a fold in front, scarcely toothed, partly hidden. Nostrils large, rounded. Eyebrows covered with small granular scales. Throat with a slight cross fold. Neck and body scarcely crested. Body depressed, broad, covered with very small, round, rather convex, smooth scales. Sides with a longitudinal fold of skin. Tail round, rather depressed at the base, with whorls of spinose scales. Femoral pores none, but the males with a series of pores a little distance in front of the vent, and one or two on the edge of the cloaca itself. Palate toothed.

The preanal pores are not mentioned by either Gravenhorst or Bell.

The Palluma. Phrymaturus Palluma, *Gravenh. Act. Nat. Cur.* 1837, xviii. 750, *t.* 55, *f.* 2. Lacerta Palluma, *Molina Saggio. Daud. Rept.* iv. 46. Centrura flagellifer, *Bell, Zool. Beagle, Rept.* 25, *t.* 13, *f.* 2.

Greyish green, black spotted, beneath greenish white; scales of the tail moderate.

*a.* In spirits. Discoloured. Body swollen, sides simple, vent with a series of pores in front. Chili. From Mr. Cuming's collection.

*b.* In spirits. Body depressed, with a large fold formed of the loose skin upon each side, femoral and preanal pores none. Chili. Presented by C. Darwin, Esq.

Centrura flagellifer, *Bell, Zool. Beagle, Rept.* 25, *t.* 13, *f.* 2.

49. Callisaurus, *Blainv.* Hypsibates, *Weigm.*!

Head short, depressed, rounded in front, covered with unequal plates, a very dilated interparietal plate, and broad square supraocular shields. Nostrils on the muzzle. Palate toothless. Teeth simple, conical. Throat with a longitudinal and hinder transverse fold. Neck with cross folds on the side. Ear-hole simple. Body depressed, with a slight fold of skin upon the lower part of each side. Scales of the body small, numerous, close, imbricate,

smooth, without any dorsal and caudal crest. Tail elongate, flat, thick at the base, attenuated, covered with small, square, smooth, whorled scales. Limbs strong. Toes very long, slender. Claws slender. Femoral pores in a long series.

The CALLISAURUS. Callisaurus draconoides, *Blainv. N. Ann. Mus.* iv. *t.* 24, *f.* 2. *Dum. et Bib. E. G.* iv. 326.

Grey, with irregular brownish bands.

Inhab. California. Mus. Paris.

### 50. TROPIDOGASTER, *Dum. et Bib.*

Head short, triangular, blunt in front, covered with keeled scales, with a moderate interparietal shield, and many small keeled supraocular scales. Nostrils lateral, tubular. Palate toothless. Throat with 2 or 3 entire cross folds. Neck with 1 or 2 longitudinal plaits on each side. Front edge of ear denticulated. Body rather depressed, with a fold of skin on each side. Scales of the back small, 1-keeled; of the belly 3-keeled. Back with a slight toothed crest. Tail long, rather conical, slightly depressed at the base, covered with whorled keeled scales, and slightly crested above. Toes and claws slender, very small. Femoral pores none.

The TROPIDOGASTER. Tropidogaster Blainvillii, *Dum. et Bib. E. G.* iv. 330, *t.* 39*, *f.* 2. Agama undulata, *Mus. Paris.*

Fulvous, waved with black, and with a grey band on each side. Inhab. ———. Mus. Paris.

c. *Scales of body and tail unequal. Sides serrated. Body depressed. Femoral pores distinct.*

### 51. PHRYNOSOMA, *Weigmann.* Tapayea, part, *Cuv.*, *Fitz.*

Head short, rounded in front, with large spines on the sides behind, and equal many-sided head-shields, interparietal shield small, circular. Palate toothless. Throat folded across. Ears simple-edged. Body short, very much depressed, oval. Scales of the upper part keeled, with scattered spinose tubercles. Sides granular, fringed above, and sometimes below, by a series of compressed elongate scales. Back and tail not crested. Tail short, tapering, depressed at the base. Limbs short. Toes short, toothed on the edge. Thigh with a series of pores.

* *Head tubercular. Belly without any lateral spines. Ventral scales smooth. Femoral pores numerous, in 2 arched series.*

DOUGLAS'S PHRYNOSOMA. Phrynosoma Douglasii, *Gray, Griffith, A. K.* ix. 44. *Zool. Beechey's Voy. t.* Agama Douglasii, *Bell, Linn. Trans.* xi. 105, *t.* 10. P. orbiculare, jun. *Dum. et Bib. E. G.* iv. 323.

Olive, whitish marbled, black spotted; back irregularly granular, with scattered groups of elongated conical angular spines; head with short tubercles on the eyebrows and lower part of the occiput and temple; head-shields keeled; chin with uniform small scales, and a short series of large keeled scales, separated from the similar-shaped lower lip-shields by small scales, and not connected behind with the larger lip-shields; belly granular, not fringed on the sides; femoral pores in 2 nearly contiguous arched series; tail with a group of large scales near the hinder edge of the cloaca.

*a.* In spirits. California. Presented by Thomas Bell, Esq.

*** Head spinose. Belly without any lateral spines. Scales of the belly smooth.*

The TAPAYAXIN. Phrynosoma orbiculare, *Weigm. Isis*, 1828, 367. *H. Mex.* 53, *t.* 8, *f.* 1. *Wagler, Icon. t.* 23, *f.* 1, 2. *Schinz, Rept.* 88, *t.* 27, *f.* 2. *Gravenh. Act. Nat. Cur.* xvi. 915, *t.* 63. *Dum. et Bib. E. G.* iv. 321. Agama Tapaye orbicularis, *Cuv. R. A.* ii. 37. Tapayaxin, *Hern. Mex.* iv. 67. P. Weigmanni, *Gray, Zool. Beechey's Voy.* 96.

Lower jaw with a series of triangular keeled scales, separated from the lower lip-shields by some small scales, and with a parallel series of larger triangular scales from the angle of the mouth, behind; chin with small uniform scales; ventral scales smooth; belly not fringed on the sides; back with scattered rather broad angular keeled conical spines, with some large keeled scales at the base; lower edge of the temple with a series of large compressed tubercles; occiput with 2 elongated spines; head-shields rugose, uniform, flat, in front of the occiput convex.

*a.* Stuffed. Mexico. Presented by William Ogilby, Esq.

**** Head spinose. Back and belly with a series of lateral spines. Scales of the belly smooth. Femoral pores continued, or only separated by a narrow preanal space.*

The CROWNED TAPAYAXIN. Phrynosoma Blainvillii, *Gray, Zool. Beechey's Voy.* 96, *t.* 29, *f.* 1, (young). P. coronatum, *Blainv. N. Mem. Mus.* iv. 28, *t.* 25, *f.* 1. *Dum. et Bib. E. G.* iv. 318.

Lower jaw with a series of compressed triangular keeled shields, parallel and close to the lower labial shields; chin with 4 rows of rather larger scales on each side, the outer on each side largest, and forming a toothed crest; ventral scales smooth; back with scattered short broad keeled scales, with small granules at their base; femoral pores continued or only separated by a narrow preanal space; tail with some large plates beneath, just behind the cloaca; head-shields convex; lower part of the temple and occiput with a series of compressed spines.

*a*. Young, in spirits. The hinder occipital spines longer, with a small one rather in front between them. California. Presented by Professor De Blainville.
P. Blainvillii, *Gray*, *l. c.*
*b*, *c*. Young, in spirits, like *a*. California. Presented by Capt. Sir Edw. Belcher, C.B., R.N.
*d*. Adult, in spirits. The spines on the occiput forming a continued frill. California.
P. solaris, *Gray*, *B. M.*

**** *Head spinose. Back and belly with a series of lateral spines. Scales of the belly keeled. Femoral pores indistinct, separated by a wide preanal space.*

The Texian Tapayaxin. Phrynosoma cornutum, *Gray*, *A. K.* ix. 45, *t.* P. Harlani, *Weigm. H. M.* 54. *Dum. et Bib. E. G.* iv. 314. P. Buffonium, *Weigm. Isis*, 1828, 367. *H. Mex.* 54. Agama cornuta, *Harlan*, *J. A. N. S. Phil.* iv. 299, *t.* 20, iv. 14. *Cuv. R. A.* ii. 37. Tapayaxin, *Barton*, *Med. Phys. Journ.* viii. Four-horned Agama, *Fennell*, *Mirror*, 1837, 121, *f.*

Lower jaw with a series of triangular keeled scales, separated from the keeled lower labial shields by some scales behind; chin with a diverging series of rather larger compressed spines on each side; ventral scales keeled; back with scattered elongated conical angular spines, surrounded at their base with smaller similar spines; 2 middle occipital spines elongate, rather compressed; femoral pores distinct, without any on the preanal space; belly edged with a series of slender spines on each side; head-shields convex; lower part of temple with a series of compressed spines; occiput with 2 elongated spines.

*a*. Half grown, in spirits. Arakansas, N. America. Presented by Dr. Macauley.
*d*, *e*. Adult and half grown, in spirits. Texas. From Mr. Drummond's collection.
*f*. Adult, in spirits. Texas. Presented by Edward Cross, Esq.
*g*. Half-grown, stuffed. Mexico.

## Fam. XX. The Agamas, (Agamidæ).

Teeth implanted on the edge of the jaws. Tongue short, depressed, apex entire or slightly nicked. Eyelids connivent, valvular. Feet for walking. Toes all free, unequal, the thumb of the hind feet on the same plane as the other toes, the little toes lower down on the ankle than the thumb.

The thumb is anterior and internal, and the great toe of the hind feet occupies the same position, the thigh and foot being bent forwards. This is proved by analogy; this toe being the one that is clawless in the *Gecko*, which have the clawless thumb, and in *Anolis*, where the thumb and great toes are simple, and not dilated beneath, like the other toes.

### *Synopsis of the Genera.*

I. *Body compressed.* Living on trees.

A. *Femoral and preanal pores none. Scales imbricate.* Asiatic.

a. *Ribs elongated, exserted, supporting wing-like lateral expansions. Throat with* 3 *pouches.*

1. Draco. Ears naked. Nostril below the face-ridge.
2. Dracocella. Ears naked. Nostril above the face-ridge.
3. Dracunculus. Ears covered with scales.

b. *Ribs simple. Back crested.*

* *Toes* 5-4. *Ears exposed.*

4. Sitana. Males with an elongated pouch. Females without any pouch.

** *Toes* 5-5. *Tail with elongated keeled scales beneath. Scales of back small, often with scattered larger ones.*

† *Ears hidden under the skin.*

5. Lyriocephalus. Head lyrate. Muzzle with a round tubercle in front. Scales unequal.
6. Ceratophora. Head square. Muzzle with a prolonged horn-like process. Scales unequal.
7. Otocryptis. Head squarish. Muzzle nearly flat, simple. Eyebrows bluntly angular behind.

†† *Ears exposed.*

8. GONYOCEPHALUS. Scales of the belly smooth, of the back unequal. Eyelids angular, produced.

9. DILOPHYRUS. Scales of the belly smooth, of the back equal. Eyebrow rounded, simple.

10. TIARIS. Scales of the belly keeled, of the back unequal. Eyebrow and paratoids unarmed.

11. ACANTHOSAURA. Scales of the belly keeled, of the back unequal. Eyebrows and paratoids armed.

*** *Toes* 5-5. *Tail with broad rhombic keeled scales beneath. Scales of back uniform.*

12. BRONCHOCELA. Nuchal crest simple. Scales in descending series.

13. SALEA. Nuchal crest double. Scales large, in longitudinal series.

14. CALOTES. Back crested. Scales in ascending series. Head swollen behind, with 1 or 2 ridges of spines.

**** *Toes* 5-5. *Tail with truncated, keeled scales beneath; scales small, keeled, in cross rings.*

15. CHELASONIA. Paratoids swollen, armless. Throat lax. The nape and back with a low crest. Tail rather compressed. Face-ridge rounded, with small scales.

16. CHARASIA. Paratoids swollen, with some spines above. The nape and back with a low crest. Tail tapering. Face-ridge distinct, with enlarged imbricate scales.

17. GINDALIA. Paratoids rather swollen, with 2 or 3 spines above. Nape and back not crested. Tail tapering, round. Face-ridge indistinct.

B. *Femoral pores distinct.*

a. *Scales rhombic, placed in rings. Toes fringed on each side. Back crested. Throat lax, folded across.*

18. LOPHURA. Back and tail with a fin-like crest, supported by bony rays. Head squarish.

19. PHRYSIGNATHUS. Back and tail with a crest of compressed scales. Head swollen behind.

b. *Scales irregular, imbricate.* Australian.

* *Neck with a frill-like expansion on each side.*

20. CHLAMYDOSAURUS. Head rhombic.

** *Neck simple.*

21. HATTERIA. Back and tail crested. Head elongate. Preanal pores numerous. Scales small.

22. LOPHOGNATHUS. Back crested. Head elongate. Preanal pores 2-2. Femoral pores 2-2.

23. DIPOROPHORA. Back keeled. Head short. Preanal pores 1-1. Scales rhombic, of belly larger.

24. AMPHIBOLURUS. Back crested, with longitudinal series of larger keeled scales. Femoral pores numerous.

25. GRAMMATOPHORA. Back not crested, with cross rows of larger scales. Femoral pores numerous.

II. *Body depressed. Back with imbricate scales. Throat with a cross fold.* Terrestrial.

a. *Preanal pores distinct. Femoral pores none. Ears exposed.*

* *Preanal and abdominal pores in several rows.*

26. LAUDAKIA. Tail with rhombic keeled scales. Paratoids spinose.

27. STELLIO. Tail with rings of large spinose scales. Paratoids spinose.

** *Preanal pores in a single line. Abdomen poreless.*

28. AGAMA. Paratoids spinose. Scales rhombic keeled.

29. TRAPELUS. Paratoids unarmed. Scales minute.

b. *Preanal and femoral pores none.*

* *Ears exposed. Body and limbs with large spinose tubercles.*

30. MOLOCH. Neck with a convex tubercle above.

** *Ears hidden. Scales small, granular. Back not crested.*

31. PHRYNOCEPHALUS. Angle of mouth simple. Toes toothed on the sides.

32. MEGALOCHILUS. Angle of mouth fringed. Toes fringed on the sides

c. *Femoral pores distinct. Preanal pores none. Ears exposed. Scales small, granular. Back not crested.*

33. UROMASTYX. Tail broad, depressed, with complete rings of spinose scales.

34. SAARA. Tail broad, depressed, with scales of the upper part of the rings spinose, of lower armless.

35. LEIOLEPIS. Tail round, elongate, tapering, with whorls of smooth scales.

I. *Body compressed.* Living on trees.

A. *Femoral and preanal pores none. Scales imbricate.* Asiatic.

a. *Ribs* 6-6, *elongate, exserted, supporting wings like lateral expansions. Throat with* 3 *pouches.* Draconina.

1. Draco, part, *Linn., Weigm.*

Head small. Nostril in a scale, rather tubular, on the side of the face-ridge. Tympanum of the ear visible, opaque, white.

They live on trees, walking with agility, with their wings folded on their sides, but they expand them and use them as a parachute when they throw themselves from the tops of trees; they spread out their pouches as they lie on the trunks of the trees.

* *Scales unequal, some larger, keeled. Nape crested.*

The Flying Lizard. Draco volans, *Linn. S. N.* 358. *Seba*, i. *t.* 102, *f.* 2, ii. *t.* 86, *f.* 3. D. prepos, *Linn. S. N.* 358. D. major, *Laur. Syn.* 50. D. minor, *Laur. Syn.* 51. D. viridis, *Daud. Rept.* iii. 301. *Wolf. Abbild.* i. *t.* 3, *f.* 3. *Schlegel, Abbild.* 89, *t.* 24, *f.* 1. *Hardw. Icon. ined. t.* 70. D. fuscus, *Daud. Rept.* iii. 307. D. bouronensis, *Lesson, Illust. Zool. t.* 37? D. Daudini, *Dum. et Bib. E. G.* iv. 451.

Scales of the back rather broad, generally smooth; of the throat granular, of the same size; lateral pouches of males moderate, rounded at the end, covered with ovate keeled scales; throat black-spotted; wings grey, fulvous or brown spotted and marbled with black, sometimes forming 4 or 5 oblique black bands near the outer edge; sides with a series of large broad-keeled scales.

*a*, *b*. In spirits. Java. From the Leyden Museum.

*c*, *d*. In spirits. Smaller, many of the dorsal scales keeled. India. Presented by the East India Company.

*e*. In spirits. Borneo. Presented by Capt. Sir Edward Belcher, R.N., C.B.

*f*. In spirits. Wings red at the base.

*g*. In spirits. Philippines. From Mr. Cuming's collection.

The Timor Flying Lizard. Draco Timorensis, *Peron, MS. Kuhl, Beytr.* 103. *Gray, Griff. A. K.* ix. 59. *Dum. et Bib. E. G.* iv. 454. D. viridis Timorensis, *Schlegel, Abbild.* 91.

Scales flat, rather large, smooth, unequal, with a row of rather larger keeled scales upon and on each side of the vertebral line; wings reddish, brown-spotted; lateral pouches (of male) moderate, rounded at the end, covered with large keeled scales; sides with an interrupted series of large keeled scales.

*a*. In spirits. Timor. From the Leyden Museum.

*b*. In spirits. With a short toothed crest on each side of the neck, scales of back subequal. Philippines. From Mr. Cuming's collection.

** *Scales small, equal. Nape crested.*

The FRINGED FLYING LIZARD. Draco fimbriatus, *Kuhl, Beit.* 101. *Guérin, Icon. t.* 10, *f.* 1. *Dum. et Bib. E. G.* iv. 448. *Schlegel, Abbild.* 2, *t.* 24, *f.* 2, 4, skull. D. abbreviatus, *Gray, Zool. Journ.* 1827, iii. 219. *Illust. Ind. Zool. t.* 20. *Griffith, A. K.* ix. 59. *Hardw. Icon. ined. t.* 71, 72.

Scales of the back small, equal, mostly smooth; the throat with many circular spaces covered with larger granular scales; head white, brown-netted; lateral pouches of male elongate, angular, acute, covered with large keeled scales; wings with short, whitish longitudinal lines; sides with a series of small triangular keeled scales, placed in groups of 2 or 3; nostrils subsuperior.

*a*, *b*. In spirits. Sumatra. From the Leyden Museum.
*c*. In spirits. Singapore.
*d*. In spirits. Sumatra. From the Leyden Museum.
*e*. Young, in spirits. Lateral tubercular scales very minute. Singapore. Presented by Gen. Hardwicke.

D. abbreviatus, *Gray, Zool. Jour.* iii. 219. *Illust. Ind. Zool. t.* 20?

## 2. DRACOCELLA.

Head small, covered with small unequal scales. Nostrils roundish, in a scale, erect, vertical, on the face-ridge. Tympanum exposed, opaque.

* *Nape crested.*

DUSSUMIER'S DRAGON. Dracocella Dussumieri. Draco Dussumieri, *Dum. et Bib. E. G.* iv. 456. *Schlegel, Abbild.* 95.

Scales moderate, rather rhombic; sides with a series of rather larger scales, placed in roundish groups; orbit with a small bony point at back and front angle; wings with large brown spots near the body, and largely marbled near the outer edge; a black band across the throat; base of the pouch blue black; limbs moderate.

*a*, *b*. In spirits. India. From Mr. Gardner's collection.

** *Nape not crested.*

The RED-THROATED DRAGON. Dracocella hæmatopogon. Draco hæmatopogon, *Gray, Griff. A. K.* ix. 59. *Dum. et Bib. E. G.* iv. 458. *Schlegel, Abbild.* 95, *t.* 24, *f.* 6, 9.

Orbit with a small bony point above, upon the front and back edge; scales of the back equal, smooth; the sides with a series of large keeled scales; nape not crested; a large round black spot on each side of the base of the pouch; wings brown-spotted; the limbs elongate.

*a*, *b*. In spirits. Sumatra. From the Leyden Museum.

### 3. Dracunculus, *Weigmann.*

Head quadrangular, covered with small unequal scales. Nostrils lateral, on the face-ridge. Tympanum hid under the skin, covered with scales.

Weigmann described *D. lineatus* as having but 5 exserted ribs, but our specimens, like the other dragons, have 6 on each side.

** Nape not crested, with a longitudinal fold.*

The Banded Flying Lizard. Dracunculus quinquefasciatus. Draco quinquefasciatus, *Gray, Zool. Journ.* 1827, 219. *Illustr. Ind. Zool. t. Dum. et Bib. E. G.* iv. 455. *Hardw. Icon. ined. B. M. t.* 69.

Wings with 5 cross bands; scales of the back keeled; nape with a longitudinal fold, not crested; nostrils superior, erect; ears covered with many equal granular scales.

*a.* In spirits. Penang. Presented by Gen. Thomas Hardwicke.

*** Nape crested. Ears slightly concave.*

The Lined Flying Lizard. Dracunculus lineatus, *Weigm. H. Mex.* 14. *Act. Acad. N. Cur.* xvii. 217. D. lineatus, *Daud. Rept.* iii. 298. *Wolf. Abbild.* i. *t.* 3, *f.* 10. *Schlegel, Abbild.* 93, *t.* 24, *f.* 5. *Gray, Griff. A. K.* 59. *Dum. et Bib. E. G.* iv. 459. D. Amboinensis, *Lesson, Ill. Zool. t.* 38. D. volans, *Blumb. Abbild. t.* 68.

Head grey, white-spotted; wings dark-banded, with small white longitudinal lines; the sides and throat bluish black, with large white spots; the ears indistinctly marked, covered with thin flat scales; base of the tail rounder above, with a slight crest on each side.

*a.* In spirits. Amboina. From the Leyden Museum.
*b—d.* In spirits. Java. Presented by Capt. Sir Edw. Belcher, R.N.

The Banded-head Dragon. Dracunculus ornatus.

Grey, head black cross-banded, chin black-dotted; wings grey, reticulated with black, and with broad black bands at the edge; scales rhombic, of the middle of the back larger, keeled, of the sides smaller, smooth; ears covered with small equal granular scales; tail slender, compressed, with 5 keels above and 2 stronger keels beneath, rather depressed at the base, with 5 slight keels above.

*a, b.* In spirits. Philippine Islands. From Mr. Cuming's collection.
*c.* In spirits. Male, crest higher. Philippine Islands. From Mr. Cuming's collection.
*d.* Very young, in spirits. Philippine Islands. From Mr. Cuming's collection.

The Spotted Winged Dragon. Dracunculus maculatus, *Gray, B. M.* 1837.

Grey, black-spotted; wings black-spotted; throat grey, pouch of the male elongate; scales of the back rather unequal, rhombic, keeled, of the sides rather smaller, sides with a series of large keeled scales; ears rather sunk, with unequal flat scales; tail slender, with a central keel above and 5 more small ones on the sides, base dilated, with 5 nearly equidistant equal keels above.

*a*. In spirits. Penang. From Capt. Hay's collection.
*b*, *c*. In spirits. Asia. Presented by Sir James MacGregor.

Weigmann's Flying Lizard. Dracunculus spilopterus, *Weigm. Act. Nat. Cur.* xvii. 216, *t.* 15. *Gervais, Voy. Favour. t. Dum. et Bib. E. G.* iv. 461. *Schlegel, Abbild.* 92.

Wings reddish near the body, with large brown spots, yellow near the edge; throat yellow, black-spotted.

Inhab. Manilla? Mus. Paris.

May be the same as the former, but the wings subelliptic, but the scales in the figure do not exactly agree.

b. *Ribs simple. Back crested.*

* *Toes* 5-4. *Scales subequal. Ears exposed.* Sitanina.

4. Sitana, *Cuv.* Semiophorus, *Wagler & Weigm.*

Head pyramidical, quadrangular, short, covered with small nearly equal keeled scales. Ear-drum small, round, superficial. Tongue thick, fungous, entire. Throat without any cross fold in front or plaits upon the sides; the males with a large compressed throat-pouch. Nape with a rudimentary crest. Body subquadrangular. Back rounded. Scales rhombic, keeled, imbricate, generally equal, of the sides rather smaller. Tail long, conical, not keeled. Toes 5 in front, 4 behind. Femoral pores none.

The Sitana. Sitana Ponticereana, *Cuv. R. A.* ii. 43, *t.* 6, *f.* 2. *Guérin, Icon. t.* 10, *f.* 2. *Gray, Griff. A. K.* ix. 57. *Dum. et Bib. E. G.* iv. 437. *Wagler, Sys.* 152. *Weigm. H. M.* 14.

Fulvous; back with a central series of rhombic spots, and pale streak down each side; the pouch of the males 3-coloured.

*a*, *b*. Adult, stuffed. Male, scales of the sides equal. India.
*c*. In spirits. Male. India.
*d*, *e*. In spirits. Male. India.
*f*, *g*. In spirits. Male and female. Throat of male pale, sides with a few larger scattered scales, occiput rather tubercular. India.

** *Toes* 5-5. *Tail with elongated keeled scales beneath. Scales small, generally with cross bands of larger ones.* Lyriocephalina.

† *Ears hidden under the skin.*

5. LYRIOCEPHALUS, *Merrem.*

Head short, triangular. Eyebrow-ridges high, prolonged behind. End of the muzzle with a large rounded scaly prominence. Tongue thick, broad, entire. Ear-drum hidden under the skin. Throat-pouch small, compressed, with an angular fold in front of the chest. Body, neck and tail compressed, with a small toothed crest. Scales small, subimbricate, with cross bands of larger ones. Femoral and preanal pores none.

The LYRIOCEPHALE. Lyriocephalus scutatus, *Wagler, Syst.* 150. *Gray, Griff. A. K.* ix. 54. Lacerta scutata, *Linn. S. N.* 360. *Seba*, i. *t.* 109, *f.* 3. *Shaw, Zool.* iii. *t.* 68. *Latr. Rept.* i. 267. *Kuhl. Beytr.* 106. *Gray, Griff. A. K.* ix. 54. Lyr. margaritaceus, *Merrem, Tent.* 49. *Guérin, Icon. t.* 8, *f.* 2. *Schinz, t.* 26, *f.* 2. *Dum. et Bib. E. G.* iv. 427. Lyr. Macgregorii, *Gray, Ill. Ind. Zool. t.*

Bluish white, beneath paler; head yellowish grey.

Inhab. East Indies. Mus. Chatham.

6. CERATOPHORA, *Gray.*

Head quadrangular, with small rather convex scales. Eyebrows rather produced horizontally. Muzzle prolonged into a conical horn-like process. Nostril lateral, anterior. Throat with oblique series of slightly dilated rhombic shieldlike scales on the sides, and 2 rows of smaller scales in the middle. Ear-drum hidden under the skin. Occiput and temples rather tubercular. Nape with a crest of conical scales. Back slightly keeled. Scales of the back rhomboidal, unequal, placed in oblique bands, of the belly smaller, equal, smooth. Femoral pores none. Tail elongate, tapering, with 2 rows of narrow keeled scales beneath.

STODDART'S CERATOPHORA. Ceratophora Stoddartii, *Gray, Ill. Ind. Zool.* ii. *t.* *Dum. et Bib. E. G.* iv. 434.

Bluish, black-banded; throat pale whitish; tail brown-ringed.

*a.* In spirits. Ceylon. Presented by Col. Stoddart, R. Staff C.

7. OTOCRYPTIS, *Weigmann.*

Head short, pyramidical, 4-sided, sides vertical. Muzzle flat, blunt, not swollen, concave between the eyes, flattened behind. Orbital ridges ending in obtuse angles, covered with imbricate scales, but not supported by bones. Ear-drum hidden by the skin. Throat bag-like. Body compressed. Limbs slender, very long. Femoral pores none. Tail round, long, slender, base compressed.

The Otocrypte. Otocryptis bivittata, *Weigm. Isis*, 1831, 291. *Herp. Mex.* i. 14. *Dum. et Bib. E. G.* iv. 432. O. Weigmanni, *Wagler, Sys.* 150.

Scales of the eyebrows keeled, oval, of the crown small, tubercular, of the occiput large, ovate, transverse.

Inhab. ——— ? Mus. Berlin.

†† *Ears exposed, superficial. Scales of belly smooth.*

8. Gonyocephalus, *Kuhl.* Lophyrus, part, *Dum. et Bib.*

Forehead subtriangular, concave. Orbit-edge high, without any spine behind. Sides of neck with scattered tubercles. Throat with a large compressed pouch, keeled and toothed in front, with an angular fold in front of each shoulder. Nape with a high compressed toothed crest. Back keeled, with a toothed crest. Scales of the back small, rhombic, with a series of larger scales on each side. Tail elongate, compressed, with a series of elongate keeled scales beneath. Femoral pores none.

The Gonyocephale. Gonyocephalus chameleontina. Iguana chameleontina, *Laur. Syn.* 47. Lacerta tigrina, &c. *Seba, Thes.* i. 157, *t.* 100, *f.* 2. Lac. superciliosa, *Shaw, Zool.* iii. 220, *t.* 68. *Gray, Zool. Jour. Hardw. Icon. ined. t.* 73. Agama gigantea, *Kuhl, Beytr.* 106. A. Tigrina, *Merrem. Kaup. Isis*, 1825, 590. *Gray, G. A. K.* ix. 58. *Dum et Bib. E. G.* iv. 421, *t.* 4. Lophyurus furcatus, *Dumeril.* L. gigas, *Boie.* L. Kuhlii, *Boie. Gray, Griff. A. K.* 55. Galeotes Lophyrus, *Schlegel, Abb.* 79, *t.* 23, jun.

Green, with white oblique cross bands.

*a.* In spirits. Bencoolen. Presented by Gen. Hardwicke.
*b.* In spirits. Java.
*c.* Young, in spirits. Eyebrows scarcely produced. From the Leyden Museum.

9. Dilophyrus.

Head 4-sided. Forehead rather concave, face-ridge high. Eyebrows rounded. Occiput with 3 or 4 larger tubercles on each side. Paratoids unarmed. Nape and back with a crest of high compressed scales, with series of smaller scales at their base. The throat rather lax, with a cross fold behind, extending up the front of the shoulders. Scales of the back small, rhombic, equal, of the belly rather larger, smooth. Tail compressed, keeled and toothed above, with 2 series of elongated keeled scales beneath. Femoral and preanal pores none.

The DILOPHYRUS. Dilophyrus grandis.

Olive green; sides white-spotted, beneath whitish; tail black-banded; head with lines of rather larger scales; crest very high, formed of broad compressed close-set scales, with 3 or 4 series of scales on each side of the base, interrupted over the shoulders.

*a—b*. Adult, in spirits. Rangoon. Presented by J. E. Gray, Esq.

††† *Ears exposed, superficial. Scales of belly keeled.*

10. TIARIS, *Dum. et Bib.* Lophyrus, part, *Dum. et Bib.*

Head triangular, shelving in front. Orbital edge straight, unarmed. Paratoids with only scattered tubercles. Throat with a large compressed pouch, toothed in front and covered with unequal scales, with an angular cross fold in front of the shoulder. Neck and back with a crest of very long compressed scales. Tail compressed, sharp-edged, toothed above, with 2 rows of elongate keeled scales beneath. Scales of the back rhombic, rather imbricate, with scattered larger ones on sides and nape, of the belly rather larger, keeled. Femoral pores none.

* *Crest interrupted over the shoulders.*

The BLACK-THROATED TIARIS. Tiaris megapogon. Calotes megapogon, *Schlegel*, *Mus. Leyd.* Lophyrus dilophus, *Dum. et Bib. E. G.* iv. 419. Tiaris d. *Dum. et Bib. E. G. t.* 46.

Reddish brown, brown-spotted; crest-scales olive; the throat-pouch grey-brown, black-dotted; sides of the head, throat, pouch and body with scattered broad keeled scales; crest of the tail high like that of the back (from the plate).

Inhab. New Guinea. Mus. Paris, 1, Mus. Leyden, 2 specim.

** *Crest continued.*

The SPINOSE TIARIS. Tiaris Bellii. Calotes Bellii, *Gray*, *MS. Mus. Bell*, 1836. Lophyrus Bellii, *Dum. et Bib. E. G.* iv. 416.

Pale olive, obscurely brown-banded; scales small, sides with some larger keeled scales placed in cross bands, largest towards the belly; throat-pouch with equal acute scales, with 2 or 3 rather larger more acute ones at the back angle of the lower jaw; lower jaw with 3 or 4 series of larger more acute scales on the side under the labial plates; crest formed of broad compressed scales, of the tail low; head-scales keeled, with a series of rather larger ones on the nose.

*a—c*. Half grown and young, in spirits. Philippine Islands. From Mr. Cuming's collection.

Sophia's Tiaris. Tiaris Sophiæ.

Brown, with darker cross bands; occiput with 2 conical polyhedral tubercles; temples with some rather larger tubercular scales; nape and back with a crest of elongated lanceolate spines; tail triangular at the base, with a toothed crest; the scales small, rhombic, with a few scattered convex larger scales.

*a*. Adult, in spirits. Philippine Islands. From Mr. Cuming's collection.

*b*, *c*. Young, in spirits. Philippine Islands. From Mr. Cuming's collection.

11. Acanthosaura, *Gray*. Lophyrus, part, *Dum. et Bib.*

Head triangular, shelving in front. Orbital edge curved, ending in a spine. Ear-drum superficial, thick but distinct. Paratoids with a group of elongated spines. The throat with a slight scarcely compressed pouch, not toothed in front, covered with scales like those of the back, and with an angular cross fold in front of the chest. Nape and back with a crest of elongate subulate spines. Back keeled and toothed. Scales of the back small, rhombic, subimbricate, with scattered larger scales, of the belly keeled. Tail elongate, subtriangular, slightly toothed above, with 2 rows of elongate keeled scales beneath. Femoral pores none.

The Acanthosaure. Acanthosaura armata, *Gray*, *Griffith*, *A. K.* ix. 56. *Hardw. Icon. ined. t.* 75. Agama armata, *Gray*, *Zool. Jour.* 1827, iii. 216. *Dum. et Bib. E. G.* iv. 413. Calotes Tropidogaster, *Cuv. MS.* Calotes lepidogaster, *Cuv. R. A.* ii. 39, young.

Brown, darker varied.

*a*, *b*. Adult and half grown, in spirits. Singapore. Presented by Gen. Thos. Hardwicke.

*c*. Adult, in spirits. Singapore. From M. Argent's collection.

*** *Toes* 5-5. *Tail with series of broad keeled rhombic scales.*

† *Scales small, equal, in longitudinal or descending series.*

12. Bronchocela, *Kaup*. Calotes, part, *Dum. et Bib.*

Head pyramidical, 4-sided, not swollen on the sides, covered with small equal-sized scales. Interparietal scales very small. Paratoids unarmed. Scales of the back equal, imbricate, placed in cross series, with the free edge directed towards the belly; of the belly and under side of the tail larger, rhombic, keeled. The throat more or less lax beneath, without any cross fold in front of the chest. Nape, back and tail with a crest of compressed scales.

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* *Scales elongate, keeled.*

The False Ghirget. Bronchocela cristatella, *Kaup. Dum. et Bib. E. G.* iv. 395. Agama cristatella, *Kuhl, Beytr.* 108. *Seba, Th.* i. *t.* 89, *f.* 1. *Schinz, t.* 26, *f.* 1. A. gutturosa, *Merrem, Tent.* 51. *Guérin, Icon. t.* 7, *f.* 3. *Weigm. H. M.* 14. A. Moluccana, *Lesson, Voy. Coq. t.* 1, *f.* 2. *Schinz, t.* 30. A. vultuosa, *Gray, Hardw. Icon. ined. t.* 80, 81—83. *Weigmann, H. Mex.* 14.

Blue or green, uniform, (young with paler cross bands); crest continued to the tail, suddenly lowered over the nape; scales of the sides narrow, elongate, keeled, scarcely half the size of those on the belly; nape not tubercular.

*a, b.* Adult and half grown, in spirits. Penang. Presented by Gen. Thos. Hardwicke.
*c.* Adult, in spirits. India. Presented by Thomas Bell, Esq.
*d.* In spirits. Singapore. From Mr. Argent's collection.
*e, f.* In spirits. Singapore. Presented by Capt. Sir E. Belcher, C.B., R.N.
*g.* In spirits. Singapore. From Mr. Warwick's collection.
*h.* In spirits. Amboina. From the Leyden Museum.
*i, j.* In spirits. Scales rather larger, nape with 2 narrow white cross bands. Philippines. From Mr. Cuming's collection.

The Celebes False Galeote. Bronchocela Celebensis. Calotes Celebensis, *Schlegel, Mus. Leyd.*

Blue, with a violet tinge; scales of the sides rather elongate, lanceolate, keeled, rather smaller than the ventral scales, keels distinct, rather produced; scales of the nuchal crest narrow, far apart.

*a.* In spirits. Celebes. From Mus. Leyden.

The Maned False Galeote. Bronchocela gutturosa. Calotes gutturosus, *Schlegel, Mus. Leyd.* Bronchocela jubata, *Dum. et Bib. E. G.* iv. 397.

Reddish blue (in spirits), with 2 white streaks on side of head, and band of white spots across front of body; crest of nape elevated, lower behind, continued on the back and gradually diminishing in height to the root of the tail; the scales of the body rather elongate, lanceolate, keeled, moderate, rather smaller than those of the belly, of the nuchal crest rather slender; back crested.

*a.* Half grown, in spirits. India. Presented by Gen. Hardwicke.
*b.* Half grown, in spirits. India. Presented by Thomas Bell, Esq.
*c.* Very young, in spirits. India. Presented by J. E. Gray, Esq.
*d.* Adult, in spirits. India. Presented by the East India Company.
*e, f.* Half grown, in spirits. Java. From the Leyden Museum. Galeotes cristatellus, *Mus. Leyden.*

** *Scales short, rhombic, rather blunt, slightly keeled.*

The Marbled False Galeote. Bronchocela marmorata. Lophyes epineux, *H. et J. Voy. à Pol Sud, Saur. t.* 3? not described, tail crested?

Purplish grey, head and neck green-marbled; scales of the back and sides moderate, bluntly rhombic, slightly keeled, half the size of those of the belly, of the nuchal crest rather broad; tail elongate, tapering (not crested).

*a.* In spirits. Philippine Islands. From Mr. Cuming's collection.

*** *Scales of sides large, smooth.*

The Streaked False Galeote. Bronchocela tympanistriga, *Gray, Griffith, A. K.* ix. 56. *Dum. et Bib. E. G.* iv. 399.

A large spot on the muzzle, a band across the neck, and a large disk on the side of the chest, brown; crest serrated, gradually lowering to the base of the tail; scales of the sides smooth, as large as the ventral; a subconic tubercle at the hinder end of the eyebrow, 2 others on each side of the nape, and 1 a little behind the ear; tail compressed.

Inhab. Java. Mus. Leyden.

13. Salea.

Head subquadrangular, covered with flat, keeled, not imbricate scales. Occiput and sides of nape with a few scattered rather tubercular scales. Drum of ear exposed, superficial. Nape with a crest of two diverging series of rather compressed scales. Scales of the back rhombic, keeled, placed in longitudinal series, those of the lower part of the sides tending downwards, of the neck and belly elongated, rhombic, keeled, of tail rhombic, imbricate. Back keeled, not crested. Tail elongate, tapering, with imbricate keeled scales, rather larger beneath; rather keeled above. Femoral and preanal pores none. Toes 5-5, unequal.

Horsfield's Salea. Salea Horsfieldii.

Olive, varied with large brown spots, with a white streak at the back edge of each thigh.

*a, b.* In spirits. India, Affghanistan. Presented by the India Company.

14. Calotes, *Cuvier.* Galeotes, *Schlegel.*

Head pyramidical, quadrangular, covered with small equal-sized angular scales, interparietal scale very small. The tongue thick, fungose, slightly nicked. Nostrils lateral, near the end of the muzzle, in a small shield. Throat more or less lax, without any cross fold in front of the chest, sometimes with a longitudinal

fold on each side. Scales of the body directed towards the back, uniform, imbricate, in oblique cross rows; of the back large; of the crown smooth. Paratoids spine-bearing. Nape, back and tail with a crest of compressed scales. Femoral pores none.

* *Nape with 2 rows of spines from the back of the eye over the ears.*

The AFFGHAN GALEOTE. Calotes Maria.

Green, with 2 spinose keels over the ears, one from the back edge of the eyebrow and the other below it; tail conical, elongate; neck with a broad scaly pit in front of the shoulder; legs varied with yellow.

*a*—*c*. Young, middle-aged and adult. Affghanistan. Presented by the India Company.

*d*. Half-grown, in spirits. Khassia hill. Presented by the India Company.

** *Nape with an oblique row of spines on each side, above the ears.*

The GALEOTE. Calotes ophiomachus, *Gray*, *Griffith*, *A. K.* ix. 55. *Dum. et Bib. E. G.* iv. 402. *Weigm. H. M.* 14. Lacerta Calotes, *Linn. S. N.* 367. *Seba*, *Thes.* i. *t.* 89, *f.* 2. *t.* 93, *f.* 2. *t.* 95. *f.* 3, 4. *Laur. Syn.* 49. *Latr. Rept.* i. 260. *Daud. Rept.* iii. 361, *t.* 43. *Kuhl*, *Beitr.* 108. Agama ophiomachus, *Merrem*, *Tent.* 51. A. lineata, *Kuhl*, *Beitr.* 108. A. acanthocephala, *Kuhl.*

Blue or green (in spirits), with white cross bands; a crest of large spines on each side of the nape, above the ears; tail conical, with large rhombic scales; neck with a slight fold on each side, covered with small scales.

*a*. Adult, in spirits. Spines over ears flat, broad, forming a continued line. India.

*b*. Half grown, in spirits. Not in a good state. Spines over ears slender, interrupted. India. Presented by Thos. Bell, Esq.

*c*. In spirits, like *b*. India. From Mr. Argent's collection.

*** *Nape with 2 isolated spines above the ears. Neck without any pit in front of the shoulders.*

The GHIRGET. Calotes versicolor, *Dum. et Bib. E. G.* iv. 405. *Seba*, i. *t.* 72, *f.* 1. *t.* 93, *f.* 4. *t.* 92, *f.* 1. Agama versicolor, *Daud. Rept.* iii. 393, *t.* 44, (young). *Merrem*, *Tent.* 51. A. Tiedemanni, *Kuhl*, *Beitr.* 109. *Kaup*, *Isis*, 1827, 619, *t.* 8. *Gray*, *Griff. A. K.* ix. 55. A. vultuosa, *Harlan*, *J. A. N. S. Philad.* iv. 296, *t.* 4. A. flavigularis, *Daud.* A. Indica, *Gray*, *Zool. Journ. Hardw. Icon. ined. t.* 74, 76—79.

Reddish yellow, with brown cross bands, (and a white streak on the back in young); sides of the face and throat black-streaked; 2 isolated spines, one before the other, on each side the nape above

the ears; tail compressed; no plait in front of the shoulders; the eyebrows keeled, unarmed behind; scales of the back equal, regular; sides of neck covered with scales like the back.

Var. 1. Yellow, with black cross bands.

*a, b.* Adult and half grown. In spirits. India.

*c.* Adult, in spirits. Ceylon.

*d—f.* Half-grown, in spirits. India. Presented by Mrs. Kennaway.

*g—i.* Half-grown and young. In spirits. China. Presented by J. Reeves, Esq.

*j.* Half-grown, in spirits. Madras. Presented by Major Bevan.

*k.* Half-grown, in spirits. Affghanistan. Presented by the India Company.

*l.* Half-grown, in spirits. India. Presented by Charles Bowring, Esq.

*m.* Young, in spirits. India.

Var. 2. Young. Yellowish, with black cross bands, the throat black.

*n.* Stuffed. India.

*o, p.* In spirits. Nepal. Presented by B. H. Hodgson, Esq.

Var. 3. Young. Yellowish, with black cross bands, and a streak down each side of back.

*q, r.* In spirits. Nepal. Presented by B. H. Hodgson, Esq.

*s.* In spirits. Nepal. Presented by Gen. Th. Hardwicke.

*t.* Young, in spirits. India, Affghan. Presented by the India Company.

*u.* Young, in spirits. Madras. Presented by Capt. Bevan.

The Spinous-Eyed Calotes. Calotes minor. Agama minor, *Gray, Zool. Journ. from Hardw. Icon. ined. t.* 82.

Yellowish, black-varied,; cheeks blackish-rayed; 2 isolated groups of spines on each side of nape, above the ears; eyebrows keeled, with a short spine behind; tail rather compressed; neck without any plait in the front of the shoulder.

*a—c.* Half-grown and young, in spirits. Affghanistan. Presented by the India Company.

*d.* Half-grown, in spirits. Khassia hill, India. Presented by the India Company.

**** *Nape with 2 isolated spines above the ears. Neck with a fold in front of the shoulders.*

Emma's Ghirget. Calotes Emma.

Yellowish grey; eyebrows keeled, with a spine behind; nape with 2 groups of spines on each side, over the ears; crest of nape high, of back rudimentary; scales of back and sides moderate, thin, smooth, of tail similar, the upper ones on each side slightly

keeled, of belly and throat keeled; neck with an oblique (blackish) fold on each side in front of the shoulders.

a. Half-grown? in spirits. Affghanistan. Presented by the India Company.

Roux's Galeote. Calotes Rouxii, *Dum. et Bib. E. G.* iv. 407.

Fulvous, uniform (or with some black spots); 2 small spines, one after the other, on each side of the nape; an oblique plait in front of each shoulder; scales of the sides small, rather less than the ventral ones; upper part of the base of the tail angular, with very large strong scales; eyebrows unarmed.

Inhab. India. Mus. Paris, 2 specimens, not good state.

The Whiskered Ghirget. Calotes mystaceus, *Dum. et Bib. E. G.* iv. 408.

Fulvous, with a white streak from under the eye to the shoulders; 2 small spines in a line on each side of the nape; an oblique plait before each shoulder; scales of the sides large, rather larger than the ventral ones; upper part of the base of the tail subangular, with (moderate) scales like the rest near them.

Inhab. Birman Empire. Mus. Paris, 1 specimen, given by Mr. Tennant.

**** *Toes 5-5. Tail rather compressed, with several series of truncated keeled scales beneath. Scales of the body small, keeled, rough, in cross rings.*

### 15. Chelosania.

Head large, covered with small rather unequal not imbricate scales. Sides of the face rounded, without any large scales upon the edge of the eyebrows. Paratoids swollen, unarmed. Nostrils lateral, medial. Throat lax, with a slight cross fold behind. The sides of the neck unarmed. Nape and back with a crest of low angular distant scales. Body compressed, with rings of rather small rhombic keeled rough uniform scales placed in cross rings; of the belly rather larger, obliquely keeled; of the limbs larger. Tail elongated, tapering, rather compressed, with keeled scales, those of the under side rather truncated, the keel of the scales of the end forming ridges, the upper surface slightly keeled, subdentated. Toes 5-5, moderate, unequal. Femoral and preanal pores none.

The Chelosania. Chelosania brunnea, *Gray, Zool. Erebus and Terror, t.*

Pale brown, rather paler beneath.

a. In spirits. W. Australia. From Mr. Bynoe's collection.

### 16. Charasia. Agama, part, *Gray*.

Head pyramidical, quadrangular, large, elongated, crown covered with small scales. Sides of the face angled, it and the eyebrows edged with series of larger imbricate scales. The nostrils upon the front of the side of the face, just under the face-ridge. The throat rather lax, with a cross fold behind. The paratoids swollen, with a few larger scattered conical scales upon the side of the nape. The nape and back with a very low dentated crest. Scales of the back small, 6-sided, those of the limbs larger, equal, keeled, of the belly rather larger, rhombic, smooth. Tail elongate, conical, tapering, with several series of rather larger rhombic scales below, and with a series of larger keeled scales along the middle of the upper surface, the scales of the upper and lower part of the base of the tail larger, callous, horn-like. Femoral and preanal pores none.

M. Bibron describes the males of this genus as having 6 or 10 rhomboidal porous scales in oblique and crossing series in front of the vent: they are not to be seen in our specimens.

The Charasia. Charasia dorsalis. Agama dorsalis, *Gray, Griffith, A. K.* ix. 56. *Dum. et Bib. E. G.* iv. 486.

Pale brown, beneath paler; sides of the head, body and limbs black-varied; lips and streak on each side of the face, under the ears, pale.

*a*. In spirits, rather bleached. India. Presented by Gen. Hardwicke.

*b*. Adult, in spirits. India. Presented by the India Company.

*c*, *d*. Young, in spirits. Back darker cross-banded, and with symmetrical oblong dark-edged pale spots, base of tail not swollen, and without any larger scales. India. Presented by the India Company.

### 17. Gindalia.

Head moderate, subquadrangular, covered with regular keeled scales, of the occiput rather smaller. Face-ridge rather angular, edged with small scales. Paratoids rather swollen, with a ridge of rather larger conical scales over the ears above. Nostrils lateral, medial. Throat rather lax, with a cross fold behind. Nape and back rounded, not crested. Scales of the back equal, rhombic, keeled, placed in longitudinal series; of the sides smaller, but with the keels forming rather ascending ridges; of the belly similar, in longitudinal series, with the keels sharp and rather produced at the tip. The tail round, tapering, with imbricate rhombic scales, with the keels forming longitudinal ridges. Femoral and preanal pores none. Toes 5-5, unequal.

The GINDALIA. Gindalia Bennettii, *Gray, Zool. Erebus and Terror, t.*

Pale brown, rather paler beneath; the scales of the back small, sharply keeled, forming longitudinal ridges, which converge together just at the base of the tail towards the two upper ridges formed by the keels of the scales of the tail; of the limbs rather larger.

*a.* In spirits. N. W. coast of Australia. Presented by Dr. Richardson.

B. *Femoral pores distinct.*

a. *Scales rhombic, placed in rings. Toes fringed on each side, Back crested. Throat lax, folded across.* Lophurina.

18. LOPHURA, *Gray.* Istiurus, *Cuv.* Physignathus, *Cuvier.* Hydrosaurus, *Fitz.* Basiliscus, part, *Daud.*

Head pyramidical, quadrangular, covered with small equal keeled scales. Superciliary edge keeled. Nostrils lateral. Ear-drum superficial, exposed. Throat-pouch small, with an angular plait in front of the neck. Neck, body and tail compressed, with a crest supported by bony rays to the base of the tail. Femoral pores distinct.

The SOA AJER. Lophura amboinensis, *Gray, Phil. Mag.* ii. 54. *Wagler, Sys.* 151. *Icon. t.* 28. Lacerta amboinensis, *Schlosser, Epist. Gmel. S. N.* 1064. *Latr. Rept.* i. 271. *Daud. Rept.* iii. 322. *Kaup, Isis*, 1828, 1147. *Cuv. R. A.* ii. 41. *Dum. et Bib. E. G.* iv. 380. Le Port crête, *Daub. Rept.* 663. Histiurus pustulatus, *Esch. Zool. Atlas, t.* 7. *Weigmann, Act. Acad. Nat. Cur.* xviii. 214.

Green, vermiculated with black; scales of the body moderate, unequal, with cross ridges of larger keeled scales; of the belly smooth; of the head small, nearly equal, keeled; nose crested in front.

*a.* Stuffed. Amboina. From the Leyden Museum.

*b, c.* Young, in spirits. Nose with a low crest in the middle of the front, grey, blackish varied, head black varied, neck with oblique black streaks. Philippines. From Mr. Cuming's collection.

SHAW'S LOPHURA. Lophura Shawii. Lac. Lophura, *Shaw, Zool.* iv. *t.* 62. Lac. Javanica, *Hornst. N. A. Stockh.* vi. *t.* 5? Loph. Amboinensis, *Weigm. Act. Acad. N. Cur.* xviii. 914.

Green, vermiculated with black; scales unequal, with cross ridges of larger scales; of head small, keeled, all equal; nose not crested in front.

*a.* In spirits. Dr. Shaw's specimen.

19. PHYSIGNATHUS, *Cuv.* Lophura, part, *Gray.* Istiurus, part, *Dum. et Bib.*

Head pyramidical, quadrangular, swollen behind, covered with small equal keeled scales. Paratoids with ridges of large acute scales. Superciliary edges keeled. Nostrils lateral. Ear-drum superficial, exposed. Throat-pouch small, with an angular plait in the front of the neck. Back and tail with a regular crest of compressed scales. Tail compressed. Femoral pores distinct.

CUVIER'S PHYSIGNATHUS. Physignathus concinnus, *Cuv. R. A.* ii. 41, *t.* 6, *f.* 1. Lophura concinna, *Gray, Griffith, A. K.* ix. 61. P. Iguanoides, *Cuv. Mus. Paris.* Istiurus Physignathus, *Dum. et Bib. E. G.* iv. 307. I. Cochinchinensis, *Guérin, Icon. t.* 9, *f.* 1. Loph. Cuvieri, *Gray, Griffith, A. K.* ix. 60.

Cheek with 3 or 4 large tubercles behind; back sharp-edged; scales of the sides very small, equal, of the head very small, deeply grooved, of the belly smooth; the scales of the back-crest of the adult elongate and becoming closer, and the back edge of the lower jaw is much swollen.

Inhab. Cochinchina.

LESUEUR'S PHYSIGNATHUS. Physignathus Lesueurii. Lophura Les. *Gray, Syn. Rept. Griff. A. K.* ix. 60. *Dum. et Bib. E. G.* iv. 384, *t.* 40, *f.* 1, 1 *a.*

Grey-brown, with large black spots; scales of the back unequal, of the head small, rhomboidal, keeled, of the end of the muzzle similar to those behind them, of the belly keeled; the back angular.

*a*, *b*. Adult, stuffed. Australia.

b. *Scales irregular, imbricate.* Australia.

* *Neck with a frill-like expansion on each side.*

20. CHLAMYDOSAURUS, *Gray.*

Head pyramidical, 4-sided, covered with small subequal keeled scales. Throat not pouched. Ear-drum superficial. Neck with a large plaited membrane on each side, covered with scales, and toothed on the edge. Nape with a rudimentary crest. Back not crested. Scales imbricate, keeled, those of the sides smaller. Legs strong. Toes 5-5, unequal. Femoral pores distinct. Tail elongate, tapering, not crested.

The frill increases in size compared with the size of the animal as it grows in age; in the young, it does not reach to the base of the fore limbs, in the adult it becomes much fuller, and reaches considerably beyond the axilla.

The Frilled Lizard. Chlamydosaurus Kingii, *Gray, King's Voy. Aust.* ii. *t.* 1. *Zool. Misc.* 53. *Dum. et Bib. E. G.* iv. 441, *t.* 45. *Voy. à Pol. Sud, t.* 6. *Griffith, A. K.* ix. *t.*

Fulvous, obscurely brown varied.

*a.* Stuffed specimen. Presented by Allan Cunningham, Esq.

*b, c.* Adult and young, stuffed. Port Essington. From Mr. Gould's collection.

*d, e.* Adult and young, in spirits. Port Essington. From Mr. Gould's collection.

*f.* Adult, in spirits. Port Essington. From Mr. Gould's collection.

*g.* Young, in spirits. Grey, with narrow irregularly waved and twisted black streaks, forming broad bands across the back, limbs and tail; the bands are indistinctly marked upon the body, but more distinctly on the limbs and tail, where they are to be seen of a brown colour on a much more grown specimen: the head and face marked with symmetrical twisted and curved lines. Port Essington. From Mr. Gould's collection.

### 21. Hatteria, *Gray.*

Head quadrangular, covered with small scales. Throat lax, with a cross fold behind. Nape and back with a crest of compressed spines. Body covered with small and larger scales. Belly and under side of tail with large, squarish, keelless, flat scales, placed in cross series. Tail compressed, triangular, covered with small scales, and with a ridge of large compressed spines. Legs strong. Toes 5-5, short, strong, cylindrical, slightly webbed at the base, covered above and below with small scales. Claws short, blunt. Femoral pores none. Preanal scales small, a few of them are pierced in the centre.

The Tuatera or Narara. Hatteria punctata, *Gray, Z. M.* 72. *Dieffenb. N. Z.* ii. 204. *Zool. Erebus and Terror, Rept. t.* Gigantic Lizard, *Cook's Third Voy.* i. 153. Guana, *Polack, N. Z.* i. 317.

Olive; sides and limbs with minute white specks, beneath yellowish; the spines of the nuchal and dorsal crests yellow, of the caudal brown; scales of the back, head, tail and limbs small, granular, nearly uniform; the irregular folds in the skin are fringed at the top with a series of rather large scales; an oblique ridge of larger scales on each side of the base of the tail, and a few shorter longitudinal ridges of rather smaller ones on each side of the upper part of the tail.

*a.* In spirits. New Zealand. From Dr. Dieffenbach's collection.

*b.* Stuffed. New Zealand. Presented by F. Knox, M.D.

*c.* Skeleton of *b.* New Zealand. Presented by F. Knox, M.D.

### 22. Lophognathus, *Gray.*

Head elongate. Forehead shelving, nearly flat, covered with keeled scales. Eyebrows keeled. The back covered with keeled rhombic scales, placed in oblique rather ascending series. Limbs, tail, chest and belly with larger scales placed in longitudinal series. Nape and paratoids with a crest of short compressed scales. The nuchal crest is continued in a slight keel down the back. Tail elongate, tapering. Femoral pores 2 or 3, rather irregular. Two preanal pores on each side, near the base of the lower side of the thigh.

This genus differs from *Calotes* in being furnished with pores.

The Lophognathe. Lophognathus Gilbertii, *Gray, Zool. Misc.* 53. *Zool. Erebus and Terror, t.*

Olive-green, chin and throat greener; the upper lips, a broad streak under the ears, bent up and continued along the sides, becoming narrower near the hind legs, and a second small streak on the sides of the throat, white; tail obscurely black-ringed; nuchal crest short, low, continued by a very slightly raised keel to the base of the tail; scales of the back small, keeled, of the limbs, tail, chest and belly longer, lozenge-shaped.

*a, b.* N. Australia, Port Essington. From Mr. Gilbert's collection.
*c—e.* N. Australia, Port Essington. Presented by Dr. Richardson.

### 23. Diporophora, *Gray.*

Head short, forehead shelving, nearly flat, covered with small keeled scales. Eyebrows keeled. The back covered with keeled rhombic scales. Limbs, tail, chest and belly with larger keeled rhombic scales, all placed in longitudinal series. Back slightly keeled on each side. Nape with a very obscure keel. Tail elongate, tapering, subangular. Femoral pores none. One preanal pore on the side, near the base of the lower side of the thigh.

This differs from *Grammatophora* in having only 2 preanal pores; in form it is intermediate between that genus and *Calotes.*

The Diporophore. Diporophora bilineata, *Gray, Z. M.* 54. *Zool. Erebus and Terror, t.*

Pale brown (in spirits), with black spots forming 7 cross bands on the body and black rings on the tail; a narrow streak on each side of the neck and front of the body, and a few scales in cross series on the sides of the body, yellow; throat grey; chest, belly and under side of limbs and base of tail, yellow; the feet pale; a group of 2 or 3 small conical spines in front, one over the top and one or two on the paratoid behind the ear.

*a—c.* In spirits. N. Australia, Port Essington. From Mr. Gilbert's collection.
*d.* In spirits. N. Australia, Port Essington. Presented by B. Bynoe, Esq.

24, 25. GRAMMATOPHORA, *Kaup.* Amphibolurus, *Wagl.*, *Weigm.*

Head triangular, flattened, muzzle subacute, with small unequal angular keeled scales. Nostrils lateral, anterior. Tympanum external. Cutting teeth 5-5, canines 2-2. Throat not pouched, with a plait across the chest. Back not crested. Scales of the back imbricate, unequal, with cross bands of larger scales. Femoral pores distinct. Tail long, conical, depressed at the base, with keeled imbricate scales.

In the Synopsis of the Genera at p. 232, I have regarded the first section as a genus; but on consideration, I have thought it better to reduce it again.

† *Back and sides with a central and longitudinal series of larger, keeled, compressed scales.* Amphibolurus.

The CRESTED GRAMMATOPHORE. Grammatophora cristata, *Gray, Zool. Erebus and Terror, t.*

Olive; head black varied, beneath pale, throat, chest and under side of the thighs black; tail black-ringed; scales rather irregular, with a central and two lateral series of compressed keeled scales; nape with a crest of compressed elevated distant scales; sides of the neck with scattered single elongated conical spines; tail tapering, with uniform keeled scales, keeled above, rather dilated at the base, with indistinct cross series of rather larger scales.

*a.* In spirits. Western Australia. From Mr. Gilbert's collection.

The GRAMMATOPHORE. Grammatophora muricata, *Kaup, Isis*, 1827, 621. *Gray, Griff. A. K.* ix. 60. *Zool. Erebus & Terror, t. Dum. et Bib. E. G.* iv. 475. Lacerta muricata, *Shaw, Zool.* iii. 211, *t.* 65, *f.* 2. *White, Jour.* 144, *t.* 31, *f.* 1. *Daud. Rept.* iii. 391. *Weigm. H. M.* 17. Agama Jacksoniensis, *Kuhl, Beytr.* 113. *Schinz, Rept. t.* 30. *Guerin, Icon. t.* 3, *f.* A. grandoculis, *Lacep.*

Nape and back with an equal crest of triangular compressed scales, and with 2 or 3 similar series on each side of it; sides with scattered larger keeled scales, and with a series of small compressed ones above; sides of the nape and paratoids with series of triangular keeled scales; tail elongate, tapering, with uniform equal keeled scales; pale, a series of angular spots down the back, and brown varied and streaked on the sides; head large.

*a.* In spirits. Australia. Capt. White's specimen.
*b.* Dry. Australia.
*c.* Half grown, in spirits. N. Holland. Presented by J. Hunter, Esq.
*d.* In spirits. Australia. Presented by the Earl of Derby.
*e.* In spirits. W. Australia. From Mr. Gilbert's collection.
*f.* In spirits. Van Diemen's Land. Presented by Charles Darwin, Esq.
*g—i.* Stuffed. Australia.

** *Back with a central series of keeled scales, and with cross rows of larger keeled scales on each side.*

The NETTED GRAMMATOPHORE. Grammatophora reticulata. Grammatophora Decresii, *Gray, Grey's Trav. Austr.* ii. *Zool. Erebus and Terror, t.* (not *Dum. et Bib.*)

Black, yellow-spotted and varied, beneath grey, vermiculated with blackish; tail black-ringed; back and nape with a central series of larger keeled scales, with distant cross series of similar scales; sides of the nape and paratoids with series of rather larger keeled scales; scales of the back small, subequal; tail tapering, with regular nearly equal keeled scales, and 1 or 2 cross bands of larger scales at the base.

*a—c.* In spirits. W. Australia. From Mr. Gilbert's collection.

*** *Back without any central crest. Nape very obscurely crested. Sides with series of larger scales.*

The BEARDED GRAMMATOPHORE. Grammatophora barbata, *Kaup, Isis*, 1827, 621. *Gray, Griffith, A. K.* ix. 60. *Zool. Erebus and Terror, t. Dum. et Bib. E. G.* iv. 478. Agama barbata, *Cuv. R. A.* ii. 35. *Weigm. H. M.* 7.

Pale olive, obscurely cross banded, with a dark spot on each side of the neck; chin and throat of the young brown-lined; head enlarged, and with a transverse ridge of spines behind; scales of the back irregular, the larger placed in cross series, of the throat, paratoids and sides very long, slender, spreading, of the tail unequal, with irregular cross bands of larger keeled scales.

*a.* Adult, stuffed. Australia. Presented by A. Cunningham, Esq. F.L.S.

*b.* Adult, stuffed. Australia.

*c—e.* In spirits. Houtman's Abrolhos. From Mr. Gilbert's collection.

*f—h.* In spirits. W. Australia, Swan River. Presented by Capt. G. Grey.

*i.* In spirits. W. Australia. Presented by G. F. Moore, Esq.

*j, k.* Young, in spirits, with cross lines of spines on occiput, like adult. W. Australia.

The LOZENGE-MARKED GRAMMATOPHORE. Grammatophora angulifera, *Gray, Zool. Erebus and Terror, t.*

Pale brown, with a central series of angular spots; sides with cross bands; beneath white, brown-dotted; back with a longitudinal series of larger keeled scales on each side of the dorsal line, and with 1 or 2 other series of more keeled scales on each side; nape and back sometimes very slightly keeled and subcrested; the tail tapering, with 5 series of keeled scales at the base.

Var. 1. The dorsal spots in one series.

*a—c.* Adult and young, in spirits. Van Diemen's Land.

*d, e.* In spirits. V. D. Land. Presented by Charles Darwin, Esq.

*f.* In spirits. V. D. Land. Presented by the Earl of Derby.

*g—i.* Stuffed. V. D. Land.

Var. 2. or young, with the dorsal spots in 2 series, separated by a broad central streak.

G. muricata Adeladensis, *Gray, Grey's Trav.* ii.

*j—l.* Young, in spirits. Throat and chest black varied. Swan River.

*m—o.* Young, in spirits. Throat sometimes black-lined. W. Australia.

Var. 3. or young, pale olive.

*p.* In spirits. Throat black-varied, with a black abdominal streak. W. Australia.

*q, r.* In spirits. Throat paler. W. Australia.

******** *Nape slightly crested. Scales subequal uniform.*

The Black-spotted Grammatophore. Grammatophora maculata. Uromastyx maculata, *Gray, Griffith, A. K.* ix. 62. Grammatophora Gaimardi, *Dum. et Bib. E. G.* iv. 470.

Back black-spotted, with 2 black streaks along the tail, a rhomboidal black spot across the chest, and an angular black band under the throat; scales rhomboidal, oblong, strongly keeled, imbricate; nape with a rudimentary scaly crest; ears large, without any tubercles near them; hinder toes and claws very slender, tapering; nostril near the orbit.

Inhab. New Holland, at the Bay of Sea Dogs. Mus. Paris.

The Swan River Grammatophore. Grammatophora Decresii, *Dum. et Bib. E. G.* iv. 472.

Back olive brown; throat yellowish, veined with black; chest brownish; scales of the body rhomboidal, high, tented, as long as broad, of the belly similar, but flat; hinder toes and claws moderate; nostril in the middle of the side of the face; plait on the sides of the neck and round the ears rough with small tubercles, and with 2 groups of tubercles on the side of the neck.

Inhab. Australia, Swan River. Mus. Paris.

The Yellow-spotted Grammatophore. Grammatophora ornata, *Gray, Zool. Erebus and Terror, t.*

Black; the back with a series of large yellow spots, smaller on the sides; the tail and limbs yellow-banded, beneath yellow; the throat black-dotted; chest blackish; nape with a slight scaly crest; ears with a few tubercular scales in front; neck with 3 or 4 groups of short tubercular scales on each side; the scales small, ovate, imbricate, keeled, of the middle of the back rather larger,

and with a few rather larger (white) ones scattered on the sides; nostril near the front edge of the orbit.
*a*. Adult, in spirits. W. Australia.

II. *Body depressed. Back with imbricate scales. Throat with a cross fold.* Terrestrial.

a. *Femoral pores none. Preanal pores distinct. Ears exposed.* Agamina.

* *Preanal and abdominal pores in several rows. Tail ringed.*

26. LAUDAKIA.

Head moderate, covered with small scales. Face-ridge distinct, angular. Nostril lateral, anterior. Throat rather lax, with a cross fold behind. Paratoids and sides of the neck with groups of tubercular scales. Nape with a slight crest. Back not crested. Scales of the back moderate, rhombic; of the sides smaller, with scattered larger keeled ones; of the belly rather larger and smooth; of the limbs larger, keeled. Vent with several series of porous scales in front forming a callous patch, with a similar spot of porous scales in the middle of the abdomen. Tail elongate, tapering, with imbricate keeled rhombic scales, and with distant ring-like wrinkles, rather dilated and depressed near the base. Toes 5-5, elongate, unequal, the middle hinder nearly as long as the fourth.

The TUBERCULAR LAUDAKIA. Laudakia tuberculata. Agama tuberculata, *Gray, Zool. Jour.* iii. 218. *Illust. Ind. Zool. t.* 16, *from Hardw. Icon. ined. t.* 84. *Griffith, A. K.* ix. 56. *Dum. et Bib. E. G.* ix. 488.

Brown, with dark-edged paler spots on the sides; the lower part of the middle of the sides with cross bands of large keeled scales; upper part of the thighs with scattered tubercular spines.

*a*. In spirits. Presented by General Hardwicke.
*b*. In spirits. Singapore. From Mr. Argent's collection.

27. STELLIO.

Head triangular, rather elongate, covered with unequal scales, the hinder larger, sub-spinose. Face-ridge angular. Paratoids and sides of the neck with groups of tubercular scales. Throat lax, with a posterior cross fold. Body depressed, with a longitudinal plait on each side. Scales of the back unequal; of the middle of the back larger, convex; of the sides small, with scattered larger convex, and groups of small spine-like scales; of the belly moderate, smooth; of the limbs larger, spinose. Toes 5-5, elongate, the third and fourth hinder toes equal. Femoral pores none. Preanal pores in several cross rows, forming a triangular callous patch, and with an elongate linear callous group of pierced scales on the middle of the belly. Tail conical, round, ringed and with whorls of spinose scales.

† *Neck not crested.*

The Stellion or Hardun. Stellio Cordylina. Lacerta Stellio, *Linn. S. N.* 361. *Seba*, i. *t.* 107, *f.* 1, 2. Iguana cordalina, *Laur. Syn.* 47. S. vulgaris, *Latr. Rept.* ii. 22. *Daud. Rept.* iv. 16. *Rupp. Zool. N. Afr. t.* 2. *Gray, Griffith, A. K.* ix. 57. Agama Sebæ, *Merrem, Tent.* 55. A. Cordylea, *Merrem, Tent.* 55. St. antiquorum, *Cuv. R. A.* i. 17. *Geoff. Rept. Egypt.* i. *t.* 2, *f.* 3. Cordylus sive Uromastyx, *Aldrov.* i. 665. Le Stellion, *Daub. Rept.* 683. *Ency. Meth. t.* 8, *f.* 4.

Nape not crested; belly yellow; scales of the tail large, forming very distinct rings.

*a.* Adult, in spirits. N. Africa, Egypt. Presented by M. Lefebre.

*b*, *c.* Half grown and young, in spirits. N. Africa. Presented by the Rev. W. Hennah.

*d.* Adult, in spirits. Asia Minor. Presented by A. Christy, Esq.

*e.* Adult, in spirits. Asia Minor. Presented by Charles Fellowes, Esq.

*f.* Adult, in spirits. Asia Minor. Presented by Dr. Richardson.

The Caucasian Stellion. Stellio caucasicus, *Eichw. Zool. Spec. Fauna Casp. Cauc.* 80, *t.* 13, *f.* 1—8, skeleton. Lacerta Stellio, *Pallas.* Lac. muricata, *Pallas*, (not *Gmel.*) Stellio vulgaris, *Menest. Cat.* 64. *Eversm. N. Mem. Mosc.* 1834, *t.* 23, *f.* 1,

Above greenish ash, varied with rings of black spots; belly yellowish; tail mucronate, black-ringed; feet and side of ears spinose mucronate.

Inhab. Caucasus, Tiflis.

†† *Neck with a small crest.*

The Blue-bellied Stellion. Stellio cyanogaster, *Rupp. Abys. Fauna*, 10, *t.* 5. *Dum. et Bib. E. G.* iv. 522. Agama gularis, *Reuss. Mus. Senck.* i. 36.

Nape with a small crest; belly blue; scales of the tail moderate, forming simply imbricate whorls.

Inhab. Arabia. Mus. Francfort and Paris.

28. Agama, part, *Cuv.* Trapelus, *Wagler.*

Head moderate, rounded, triangular, depressed. Face-ridge angular, with imbricate scales. Crown with irregular scales. Nostril lateral, near the front of the muzzle. Ear-drum distinct, sunken. Throat with a longitudinal and one or two cross folds behind. Paratoids and sides of neck with groups of spines. Back slightly crested. Body depressed, with rhombic keeled scales and sometimes with scattered spinose ones. Tail elongate, tapering, with imbricated rhombic scales. Femoral pores none. Preanal pores in a series in front of the cloaca. Toes 5-5, the third and fourth of nearly equal length.

† *Back simple. Scales of back equal or subequal, flat, keeled; of belly smooth. Crown-shields flattish. Third and fourth toes subequal.*

The Spinose Agame. Agama colonorum, *Daud. Rept.* iii. 356. *Kuhl, Beytr.* 107. *Dum. et Bib. E. G.* iv. 490. Lacerta Agama, *Linn. S. N. Seba, t.* 93, *f.* 3, *t.* 107, *f.* 3. Iguana Salamandrina, *Laur. Rept.* 47. A. macrocephala, *Merrem, Tent.* 52. A. spinosa, *Gray, Griffith. A. K.* ix. 56. L'Agame, *Daub. Rept.* 587.

Brown; head moderate, with an elongate narrow convex plate on the middle of the nose; nostrils rather large, distinctly tubular; ear with small points in front; the scales of the nape, crest, and groups of spines upon each side of the neck elongate, slender; scales of the back broad, rhombic, equal-sized, keeled, dagger-pointed; of the belly smooth; tail long, strong, with large rhombic scales and keeled above.

*a.* Adult, in spirits. Pale brown, tail rather slender, toes moderate. Egypt. Presented by James Burton, Esq.

*b.* In spirits. Dark brown, tail strong, with distinct keels above, toes moderate. Egypt. Presented by Sir John Gardner Wilkinson.

*c.* Half grown, in spirits. Anal pores 5-5, pale brown, tail slender, toes slenderer, elongate. Egypt. Presented by James Burton, Esq.

The Occipital Agame. Agama occipitalis, *Gray, Phil. Mag.* 1827, 214. *Griff. A. K.* ix. 56. A. colonorum, var. *Dum. et Bib. E. G.* iv. 490.

Olive, with a pale streak down the back; head moderate, with an elongate narrow convex plate on the middle of the nose; nostrils rather large, distinctly tubular; ear with some small points in front; scales of nape, crest and groups of spines on each side of the neck short and tubercular; of the back broad, rhombic, equal-sized, keeled, dagger-pointed, of the belly smooth; tail elongate, with large rhombic scales and keeled above.

*a.* Adult, in spirits. W. Africa.

*b, c.* Adult, in spirits. W. Africa. Presented by W. Raddon, Esq.

*d, e.* Adult, in spirits. W. Africa. Presented by Dr. Stanger.

The Cape Agame. Agama atra, *Daud. Rept.* iii. 349. *Seba, Thes.* i. *t.* 87, *f.* 6. *Dum. et Bib. E. G.* iv. 493. Agama subspinosa, *Gray, Phil. Mag.* 1827, 214. *Griff. A. K.* ix. 57. Trapelus subhispidus, *Kaup, Isis*, 1827, 616. *Merrem, Beit. Amph. t.* 5.

Olive, with a yellow streak down the back; head short, blunt; nostrils small, slightly tubular; scales of the head smooth, of the back small, rhombic, keeled, of the sides smaller, equal, of the belly

moderate, smooth; ear-hole moderate, with thin spines in front; sides of the neck with a group of very small pointed spines; tail long, compressed.

*a.* In spirits. Tail slender. Cape of Good Hope.
*b.* In spirits. Tail thick, keeled above. Cape of Good Hope.
*c.* Half grown, in spirits. Tail thick, keeled above. Cape of Good Hope. Presented by J. Ford, Esq.
*d.* Stuffed, half grown. Cape of Good Hope.

The AGILE AGAME. Agama agilis, *Oliv. Voy. Ottom.* ii. 438, *t.* 29, *f.* 2. *Dum. et Bib. E. G.* iv. 497. *Gray, Griffith, A. K.* ix. 58. Trapelus flavimaculatus, *Rupp. N. Afr. Zool.* 12, *t.* 6, *f.* 1. A. leucostigma, *Reus. Mus. Senck.* i. 44?

Muzzle short, blunt; nostrils small; scales of the forehead convex, of the back moderate, similar, equal, with a small keel ending in a point behind, of the belly smooth; ear-drum sunk, narrow, with some small spines on its upper side; the nape with a small group of fine-pointed spines; back not crested; tail long, conical.

Inhab. Arabia, Bagdad. Mus. Paris.

†† *Back with a fold on each side. Scales unequal, of belly smooth.*

The HISPID AGAME. Agama aculeata, *Merrem, Syn.* 53. *Dum. et Bib. E. G.* iv. 499. Lacerta Stellio, *Shaw, Zool.* iii. 229, *t.* 7. *Seba*, ii. *t.* 8, *f.* 6. Trapelus hispidus, *Gravenh. Acad. Nat. Cur.* xvi. 917, *t.* 64, *f.* 1—8.

Head short, rounded in front; head-scales smooth; scales of the back unequal, with 2 or 3 series of triangular tubercles on each side of the dorsal line, of the belly smooth; neck with some groups of spines on the side; nape, back, and base of tail with a small crest; ear-drum open, with some small points in front; third and fourth hind toe equal, short; tail long, strong, rather tapering.

*a.* Young, in spirits. Pale ash, limbs black-dotted, tail black-banded. South Africa.
Agama Capensis, *Gray, Brit. Mus.* 1837.
*b.* Adult, stuffed. Scales rough, spinose, unequal, of tail large. Cape of Good Hope.
*c.* Adult, stuffed. Olive, with a pale dorsal streak, scales smaller, keeled, more equal, with a plait down each side of the back on which are a few spinose scales. Intermediate between *A. ater* and *A. aculeata.*

††† *Back with a central fold and one on each side. Scales unequal, tubercular, of belly keeled.*

The SPINOSE AGAME. Agama hispida. Lacerta hispida, *Linn. S. N. ed.* 13, 235. *Kaup, Isis*, xx. *t.* 7. L. orbicularis, *Linn. S.*

*N. ed.* 12, 265. *Seba, Thes.* i. *t.* 83, *f.* 1, 2, *t.* 109, *f.* 6, ii. *t.* 8, *f.* 7. *Laur. Rept.* 51. *Latr. Rept.* ii. 26. *Daud. Rept.* iii. 406 (not fig.). *Kuhl, Beytr.* 114. A. gemmata, *Daud. Rept.* iii. 410. A. aspera, *Daud. Rept.* iii. 402. A. aculeata, *Cuv. R. A.* ii. 36, (not *Merrem*). A. spinosa, *Dum. et Bib. E. G.* iv. 502, (not *Gray*).

Pale brown, with 2 series of brown spots on the back; head brown cross-banded; the head short, blunt; head-scales convex, acute; forehead, temples and occiput with some many-sided tubercular scales; ear-hole small, upper and front edges armed with large points; sides of the neck with groups of tubercular spines; nape and back crested; scales of the back unequal, a central and 3 or 4 other series of large 3-sided spines, of the belly keeled; the tail short, conical.

*a—d.* Stuffed. Cape of Good Hope.
*e—g.* Adult and young, in spirits. Cape of Good Hope.
*h.* Adult, in spirits. Presented by ——— Townsend, Esq.
*i.* Adult, in spirits. From Mr. Mantell's collection.

### 29. Trapelus, part, *Cuvier.*

Head moderate, convex, covered with unequal scales. Paratoids armless. Neck contracted. Eyelids with a fringe of small scales. Back not (or very slightly), crested with imbricate scales. Tail slender, with imbricate scales. Toes 5-5, slender. Femoral pores none. A series of pores on the front edge of the vent.

* *Third and fourth toes unequal. Ears with a series of small dependant scales.* Trapelus.

† *Back slightly crested.*

The Crested Trapelus. Trapelus Savignii. Agama Savignii, *Audouin, R. E. Dum. et Bib. E. G.* iv. 508. *Savigny, Rept. Egypt. Supp. t.* 1, *f.* 5.

Scales of forehead swollen, of the eyebrow nearly flat; interparietal plate moderate; nape and back with a crest; upper edge of the ears armed with points; scales of the back rather large, equal, rhomboidal, keeled; tail long, rather compressed; scales of the head and nape ending in a pore.
*a, b.* In spirits. Egypt. Presented by J. Burton, jun. Esq.

†† *Back not crested.*

The Variable Trapelus. Trapelus ruderata. Agama ruderata, *Oliv. Voy. Ottom.* ii. 428, *t.* 29, *f.* 3. A. orbicularis, *Daud. Rept.* iii. *t.* 45, *f.* 1. A. variabile, *I. Geoff. Rept. Egypt, t.* 3, *f.* 3, 4. *Supp. t.* 1, *f.* 6. A. mutabilis, *Merrem, Tent.* 50. *Dum. et Bib. E. G.* iv. 505. Trapelus Ægypticus, *Cuv. R. A.* ii. 37. *Gray, Griff. A. K.* ix. 58. A. deserti, *Licht.* A. pallida, *Reuss. Mus. Senck.* i. 38, *t.* 3, *f.* 3. A. nigrofasciata, *Reuss. Mus. Senck.* i. 42.

Scales of the forehead rather tubercular, of eyebrows smooth; tympanum narrow, partly hidden by the scales of its upper edge; back not crested; nape and sides of the neck with rather larger tubercular scales; scales of the back smooth or slightly keeled, with scattered flat tubercles or irregular rhombic scales; of belly smooth; tail moderately long, conical.

*a*—*c*. In spirits. Egypt. Presented by Sir J. Gardner Wilkinson.

The Blood-spotted Trapelus. Trapelus? sanguinolentus, *Eichw. Fauna Casp. Cauc.* 89, *t.* 14, *f.* 3, 4. Lacerta sang. *Pallas.* L. Agama, *Guld.* Agama Aralensis, *Licht. Eversm.* A. Oxiana, *Eichw. Zool. Spec.* Lac. scutata, *G. A. Gmelin.*

Ash, with waved cross bands and a violet spot on each side of the neck; scales of the back roundish, equal, keeled, near the ears larger, aculeate.

Inhab. Eastern shores of Caspian.

** *Third and fourth hind toes equal, short. Ears with* 1 *or* 2 *large tubercles in front. Claws largely sheathed, with scales at the base.* Isodactylus.

The Egyptian Trapelus. Trapelus Sinaitus. Agama Sinaita, *Heyden. Ruppell, N. Afr. Zool.* 10, *t.* 3. *Gray, Griff. A. K.* ix. 58. *Dum. et Bib. E. G.* iv. 510. Agama straminea, *Mus. Berl. Licht. Cat.?* A. Lichtensteinii, *Gray, B. M.* A. arenaria, *Van Heyden. Gray, Griff. A. K.* ix. 58. A. Isodactyli, *Licht. Mus. Berl.*

Muzzle short; scales of the forehead swollen, of eyebrows flat; interparietal plate small; scales of the back small, equal, of the belly smooth; tympanum large, with 2 or 3 small tubercles on the front edge; back and neck without any crest or tubercles; anal pores 6.

*a*. Adult, in spirits. Egypt. Presented by James Burton, jun. Esq.

*b*, *c*. In spirits. Egypt. Presented by James Burton, jun. Esq.

** *Preanal and femoral pores none. Ears hidden under the skin. Scales of the back small, granular. Back not crested.* Phrynocephalina.

### 31. Phrynocephalus, *Kaup.*

Head nearly circular, flattened. Lips toothed on the edge. Nostrils oblique, suberect, anterior. Tympanum hidden under the skin. Neck contracted. Throat rather lax, with a cross fold behind. Body depressed, broad, not crested. Tail thin, flattened at the base, often prehensile. Toes toothed on the edge. Femoral and preanal pores none.

* *Tail not prehensile.*

Olivier's Phrynocephale. Phrynocephalus Olivieri, *Dum. et Bib. E. G.* iv. 517.

Back brown; sides of the neck and body black; interscapulars and loins grey; tail not prehensile, nearly round, very slender, ringed with black and white; scales of the back small, with scattered larger and thicker ones.

Inhab. ——— ? Mus. Paris, (M. Olivier).

** *Tail prehensile. Back with scattered tubercular scales.*

The Ural Phrynocephale. Phrynocephalus helioscopus, *Kaup. Eichw. Fauna Casp. Cauc.* 87. *Eversm. Gravenh. N. Act. Nat. Cur.* xvi. 934, *t.* 64, *f.* 9, 14. Lacerta helioscopa, *Pallas, Z. R. A. Dum. et Bib. E. G.* iv. 519. *Gmel. S. N.* i. 1074. *Latr. Rept.* ii. 30. *Daud. Rept.* iii. 419, 422. Phryn. caudivolvulus, *Eversm. N. Mem. Mosc.* iii. 362, *t.* 32, *f.* 2. Lac. uralensis, *Lepechin? Gmel. S. N.* i. 1073. *Fitz. Verz.* 47. Lac. gibba, *Gmelin, Reiss.?*

Olive, shaded or spotted with brown, beneath whitish; scales of the back small, with small scattered tubercles; tail slightly prehensile, subconic, spotted on each side, and tipped with black.

*a*, *b*. Adult and half-grown, in spirits. Siberia. From the Berlin Museum.

*c*. Half-grown, in spirits. Siberia. Presented by J. E. Gray, Esq.

*** *Tail prehensile. Back with small uniform scales.*

The Prehensile Phrynocephale. Phrynocephalus caudivolvulus, *Fitz. Verz.* 48. *Eichw. Faun. Casp. Cauc.* 85, *t.* 13, *f.* 9—14. *t.* 12, *f.* 6, 7. *Dum. et Bib. E. G.* iv. 522. Lacerta c. *Pallas, Z. Ross. Asiat.* iii. 27. Agama ocellata, *Licht. Eversm. Reiss.* 143. Var. Phry. reticulatus, *Eichw. Zool. Spec.* iii. 186. *Dum. et Bib. E. G.* iv. 515. Lac. guttata, *Lep. Rus.* i. 317, *t.* 22, *f.* 2, 3. *Gmel. S. N.* 1078. *Gravenh. N. A. Acad. N. Cur.* viii. 780. *Schn. Am.* 204. Phryn. Pallasii, *Gray, Griffith, A. K.* ix. 59.

Olive, with waved brown lines, beneath yellow white; tail prehensile, subconic at the end, elongate, black-ringed, with a yellow longitudinal streak above and a black tip; scales of back equal.

Inhab. Siberia. Mus. Paris.

The Affghan Phrynocephalus. Phrynocephalus Tickelii.

Olive green, beneath yellowish; scales of back equal, ovate; tail very long, slender, with brown-black rings and a long pale tip, base rather dilated, with some scattered tubercles on each side.

*a*. In spirits. Affghanistan. Presented by the Hon. East India Company.

See also *P. varius*, *P. melanurus*, *P. nigricans*, *Eichw. Zool. Spicil.* iii. and *Dum. et Bib. E. G.* iv. 515.

32. MEGALOCHILUS, *Eichwald.* Phrynocephalus, part, *Kaup.* Gecko, part, *Latr.* Agama, part, *Daud.*

Head depressed, rounded. The angle of the mouth fringed with a large toothed membrane. Nostrils oblique, on the edge of the face-ridge. Tongue entire, triangular. Ears hidden under the skin. Neck contracted, with a cross fold beneath. Body depressed, broad. Back not crested. The tail much depressed (its whole length), covered with small scales. The toes elongate, very strongly toothed on the edge. Femoral and preanal pores none.

The EARED MEGALOCHILE. Megalochilus auritus, *Eichw. Fauna Casp. Cauc.* 88, *t.* 14, *f.* 1, 2. Lacerta mystacea, aut L. aurita, *Pallas, Voy. Russ.* viii. 84, *t.* 100, *f.* 1. *Gmelin, S. N.* i. 1073. *Latr. Rept.* ii. 61. *Licht. Kaup, Isis. Daud. Rept.* iii. 429, *t.* 45, *f.* 2. L. lobata, *Shaw, Zool.* iii. 244. Agama mystacea, *Merrem, Tent.* 53.

Grey.

*a*, *b*. Adult and half grown. Russia. Presented by J. E. Gray, Esq.

**** Femoral pores distinct. Ear exposed. Scales of the back small, granular, of tail ringed. Back not crested.* Uromasticina.

33. UROMASTIX, *Merrem.* Mastigura, *Flem.* Sphærodon, *Gray?*

Head flat, triangular. Muzzle short, arched. Nostrils lateral. Ear oblong, vertical, toothed in front. Skin of the throat plaited, partly covering the ears. Body oblong, depressed, not crested, covered with small smooth scales. Tail rather depressed, with rings of large keeled spinose scales above and below. Femoral and preanal pores distinct.

a. *The lower caudal spines as large as the upper, without any alternating plates.* Uromastix.

The EYED UROMASTYX. Uromastix ornatus, *Ruppell, Zool. N. Afr.* i. *t.* 1. *Gray, Griffith, A. K.* ix. 61. *Schinz. Rept. t.* 21, *f.* 3. *Dum. et Bib. E. G.* iv. 538. U. ocellatus, *Licht.*

Green, vermiculated with brown, and with waved cross bands, formed of yellow spots; the spines and scales of the thighs crowded, some of the scales of the pubic region thick and greasy; femoral pores 9-9 or 10-10.

*a*, *b*. Half grown and young, in spirits. N. Africa, Egypt. Presented by J. Burton, jun. Esq.

b. *The lower caudal plates small, oblong, in 2 or 4 series in each ring.* Mastigura.

The EGYPTIAN MASTIGURE. Uromastix spinipes, *Merrem, Tent.* 56. Stellio spinipes, *Daud. Rept.* iv. 31. *I. Geoff. Rept.*

*Egypt.* i. *t.* 2, *f.* 2. *Flem. Phis. Zool.* ii. 277. Caudiverbera, *Belon. Aquat.* i. 45. *Gesner, Icon.* v. 357. La Cordyle, *Rondel. Pois.* 176.

Green or greenish grey (not spotted) above; with scattered spines on the upper side of the thigh, and a few small conical tubercles on the sides and loins; femoral pores 16-16 or 18-18.

*a*, *b*. Half grown and adult, in spirits. N. Africa, Egypt. Presented by J. Burton, jun. Esq.

*c*. Stuffed. N. Africa. Presented by Sir J. Gardner Wilkinson.

The SPINED MASTIGURE. Uromastix acanthinurus, *Bell, Zool. Journ.* 1825, i. 457, *t.* 17. *Dum. et Bib. E. G.* iv. 544. U. dispar, *Ruppell, Z. N. Afr.* 5. *Gray, Griff. A. K.* ix. *f.* 1.

Yellowish grey or olive, black-dotted, sometimes black and white spotted; with crowded spines on the upper part of the thighs and small tubercles upon the sides; femoral pores large, 13-13 or 14-14.

Inhab. N. Africa. Mus. Bell. Mus Paris.

The BANDED MASTIGURE. Uromastix fasciatus, *Menestries, Cat. Ries.* 64.

Scales small, irregular, far apart, with numerous larger scales placed in cross bands; femoral pores continued.

Inhab. Russia, Bakou. Mus. Petersburg.

34. SAARA. Uromastix, B. *Dum. et Bib.*

Head very short, broad, much arched. Body depressed, with a fold on each side of the back. Scales minute, equal. Tail short, broad, depressed; upper part with cross bands of compressed conical scales, separated by other rings of granular and smooth square scales; beneath covered with square, smooth, imbricate scales. Femoral pores distinct.

The SAARA. Saara Hardwickii. Uromastix Hardwickii, *Gray, Zool. Journ.* iii. 219. *Illust. Ind. Zool. t. Griff. A. K.* ix. 62. *Hardw. Icon. ined. t.* 89—93. U. reticulatus, *Cuv. R. A.* ii. 34. *Guerin, Icon. t.* 6, *f.* 4. U. griseus, *Cuv. R. A.* ii. 34. *Gray, Gr. A. K.* ix. 62. *Dum. et Bib. E. G.* iv. 548, young?

Grey, reticulated with black; a large black spot on each groin.

*a*. Adult, in spirits. Hindustan, Plains of Kanouge. Presented by General Hardwicke.

*b*. Adult, in spirits. Hindustan. From Mr. Warwick's collection.

*c*, *d*. Stuffed. India.

35. LEIOLEPIS, *Cuvier*. Cynosaura, *Schlegel.*

Head triangular, covered with smooth scales, over the eyelids smaller. Muzzle arched. Nostril lateral. Throat lax, with a cross fold behind, and some folds on the sides of the neck. Scales

of the back small, granular, flat, smooth; of the belly larger. The tail round, elongate, tapering, with rings of smooth scales. Femoral pores distinct, in a continued line. Toes 5-5, unequal.

The INDIAN LEIOLEPIS. Leiolepis Bellii. Uromastix Bellii, *Gray, Zool. Journ.* 1827, 216. *Griff. A. K.* ix. 62. *Illust. Ind. Zool. t.* 18. *Hardw. Icon. ined. t.* 86—88. L. guttatus, *Cuv. R. A.* ii. 37. *Guerin, Icon. t.* 7, *f.* 2. *Dum. et Bib. E. G.* iv. 465, *t.* 42, *f.* 1. L. guttato-lineatus, *Mus. Paris.* Cynosaura punctatus, *Schlegel.*

Olive, with black-edged white spots, and a black-edged white streak on each side, beneath whitish.

*a.* Adult, in spirits. India, Penang. Presented by Capt. Stafford.

The CHINESE LEIOLEPIS. Leiolepis Reevesii. Uromastix Reevesii, *Gray, Griffith, A. K.* ix. 62. *Reeves, Hardw. Icon. ined. t.* 85.

Olive, with longitudinal series of pale whitish spots; when alive blackish, with orange spots on back, and a series of bright red spots on the sides.

*a.* China. Presented by J. Reeves, Esq.

******** *Preanal and femoral pores none. Ears exposed. Body, limbs and tail spinose.*

30. MOLOCH, *Gray.*

Head small, depressed, with large spines over each eyebrow. Nape with a large roundish protuberance, covered with spines. Throat rather lax, with a cross fold in front. Body depressed, covered above and below with irregular unequal small scales, each furnished with a more or less prominent central spine, and above with a series of large conical convex acute spines, each surrounded with small spines at the base. Head and limbs covered with similar scales and spines. Tail with irregular rings of large acute spines. Femoral and preanal pores none. Toes 5-5, short, covered above and below with keeled scales. Claws long, acute.

The MOLOCH. Moloch horridus, *Gray, Grey's Trav. W. Aust. t. MacClelland, Calcut. Journ. N. H.* 1842, 148, *t.* 5, (not good).

Pale yellow, with regular dark brown spots; sides and beneath with black-edged dark red spots.

*a* Adult, in spirits. Western Australia. Presented by G. T. More, Esq.
*b.* Adult, in spirits, wants tail. W. Australia.
*c.* Half grown. W. Australia. Presented by Lady Harvey.
*d.* Young. W. Australia.

## Tribe V. Dendrosaura.

Scales of the belly, sides and back granular, in circular bands. Tongue elongate, subcylindrical, wormlike, very extensile, rather enlarged at the end. Eyes globular, very mobile, covered with a circular lid, pierced with a small central hole. Body compressed. Toes 5-5, formed into 2 grasping opposable groups. Ears hidden under the skin. Old World.

### Fam. XXI. The Chameleons, (Chameleonidæ).

Living on trees, supporting themselves by their feet and prehensile tail: moving slowly, with regularity and affected gravity. Eating living insects and larvæ, which they procure by the very rapid ejection of their elongated tongue, which is viscid at the tip, and as quickly withdrawn. The eggs, which are placed on the ground, under leaves, are round, the shell calcareous, white, spotless, very porous. The males are distinguished by the thickness of the base of the tail.

They inhabit Africa and Asia, and are naturalized in Southern Europe.

#### 1. Chameleo. Chameleo, *Laur.*

The only genus.

* *Back with an erect fin. Belly crested.*

The Fringed Chameleon. Chameleo cristatus, *Stuch. Tr. Linn. Soc.* xvii. *Proc. Zool. Soc.* 1838, 63.

Occiput flattened, elevated, acute behind, edged with acute tubercles, especially on the tip; back and base of tail with a high crest, supported by bony rays; throat simple; belly with a denticulated crest; scales small, granular, with some scattered larger grains, and a series of larger round convex scales on each side of the back.

*a.* Adult, in spirits. Fernando Po.

** *Back high, compressed. Belly and sides with a toothed crest.*

The Side-crested Chameleon. Chameleo lateralis, *Gray, Griffith, A. K.* ix. 53. *Dum. et Bib. E. G.* iii. 220.

Occiput convex, with an arched central keel and a short keel on each side; face-ridge angular; back compressed, high, with a slightly denticulated crest of rather larger conical scales on each side; throat and belly with a denticulated crest; the scales small, equal, very convex, with scattered larger scales; grey, with a white band on each side.

*a, b.* In spirits. Madagascar. Presented by J. E. Gray, Esq.

**** Back and belly with a toothed crest. Sides simple.*

† *Scales equal, small. Muzzle simple.*

The CHAMELEON. Chameleo vulgaris, *Daud. Rept.* iv. 181. *Dum. et Bib. E. G.* iii. 204. *Gray, Phil. Mag.* 1827, 210. C. mutabilis, *Meyer, Syn. Rept.* 27. C. cinereus, *Aldrov.* C. Parisiensis, *Laur. Syn.* 45, *from Perrault, Mem. Acad. Paris*, 1699, i. *t.* 35, *copied from Prosper Alp. H. E. t.* 10. C. Mexicanus, *Laur. from Seba, Thes. t.* 82, *f.* 1. C. carinatus, *Merrem, Rept.* 162, *from Seba, Thes. t.* 82, *f.* 2. C. Zeylanicus, *Laur. Rept.* 46. C. Senegalensis, *β. Daud. Rept.* 201. C. subcroceus, *Merrem, Rept.* 162, *all from Seba, Thes.* i. *t.* 82, *f.* 3. C. Africanus, *Laur. Rept.* 46. *Huchl.* Lacerta Africana, *Gmel. S. N.* i. 1069. C. calcaratus, *Merrem, from Seba, Thes. i. t.* 83, *f.* 4. C. candidus, *Laur. Syn.* 46. Chameleon trapu, *Geoff. Rept. Egypt. t.* 4, *f.* 3. C. Siculus, *Grohm.* C. zebra, *Bory, Dict. Class. H. N.* iii. 97, *t.* — Lacerta Chamæleon, *Linn. S. N.* 364.

Occiput with a central curvilinear keel, high and pointed behind, with a more or less distinct flap on each side behind, edged and covered with large scales like the cheeks; scales small, close, rounded; dorsal and ventral line toothed.

*a.* Adult, in spirits. The occiput with a high arched crest and small flaps, the throat-crest large. India. Presented by Gen. Thomas Hardwicke.

*b.* Adult, in spirits, like *a.* India? Presented by Sir Robert H. Inglis, Bart.

*c.* Adult, in spirits, like *a.* Calcutta. Presented by Capt. Livesay.

*d.* Half-grown, in spirits, like *a.* Singapore.

*e.* Adult, in spirits, like *a*, but occipital flaps larger, partly bleached

*f.* Half-grown, in spirits. Occipital crest distinct, not so arched, flaps large, dorsal crest high, sides white-streaked.

*g, h.* Half-grown, in spirits. Occipital crest low, nearly straight, flaps large, produced behind. Egypt. Presented by James Burton, jun. Esq.

C. Trapu, *Geoff.*

*i.* Half-grown, in spirits, like *g.* Tripoli. Presented by J. Ritchie, Esq.

*k.* In spirits, like *g.* Presented by Edward Cross, Esq.

*l.* Adult, in spirits. Occipital arch high, flaps indistinct. Egypt. Presented by James Burton, jun. Esq.

*m.* Half-grown, dry. Occipital crest high. Central Africa. Presented by Col. Denham.

*n.* Half-grown, in spirits. Occipital crest high, flaps very indistinct. India.

*o—r.* Stuffed.

The Senegal Chameleon. Chameleo Senegalensis, *Daud. Rept.* iv. 203. *Cuv. R. A.* ii. 52. *Gray, Phil. Mag.* 1827, 212. *Griffith, A. K.* ix. 154. *Dum. et Bib. E. G.* iii. 221. C. gymnocephalus, *Kaup. Isis*, 1825. C. Bonæ Spei, *Laur.* 46, *from Seba*, i. *t.* 83, *f.* 5. Lacerta Chameleon, *Linn. S. N.* i. 265. *Shaw, Zool.* iii. 253, *t.* 76, *cop. Miller, Cym. Phys. t.* 11. L. pumila, *Gmel. S. N.* 1069. Ch. calcaratus, part, *Merrem, from Miller, Cym. Phys. t.* 11.

Grey or bluish; occiput flat, rounded behind; the superciliary ridge not jointed on the occiput or end of the muzzle; dorsal and ventral line denticulated; scales small, equal; of the occiput rather convex.

*a.* In spirits, grey, bleached. Senegal? Presented by Joshua Brookes, Esq.
*b.* In spirits, beneath pale. W. Africa. From Mr. Raddon's collection.
*c.* In spirits, not good state. W. Africa.
*d.* Stuffed. W. Africa.

The Flap-necked Chameleon. Chameleo dilepis, *Leach, Bowdich, Ashantee*, 493, (1819). *Gray, Phil. Mag.* 1827, 211. *Griffith, A. K.* ix. 53. *Spic. Zool.* 2, *t.* 3, *f.* 4, 5. *Dum. et Bib. E. G.* iii. 225. C. planiceps, *Merrem, Syn.* 162 (not syn.) C. bilobus, "*Leach*," *Kuhl, Beytr.* 104. *Kaup. Isis.*

Blue, with a white spot over each shoulder and a white streak on each side of the chest; occiput flat, with a rounded fleshy lobe on each side behind; superciliary ridges not united together, either at the occiput or muzzle; dorsal and ventral line denticulated; scales small, close, equal.

*a.* Adult male? in spirits. Occipital lobes very large, covered with flat large 6-sided scales. Africa, Gambroon. Presented by T. E. Bowdich, Esq.
*b, c.* Adult, in spirits. Occipital lobes small, rudimentary. W. Africa, Senegal. Presented by Adam Gerard, Esq.
*d.* Half-grown, in spirits. Ashantee. From the Leyden Museum. Ch. Senegalensis, *Schlegel.*
*e.* Half-grown, in spirits. Scales of crown and occiput very flat. Fantee. Presented by Capt. Marryat, R.N.

†† *Scales unequal, larger tubercular. Muzzle simple.*

The Bourbon Chameleon. Chameleo pardalis, *Cuv. R. A.* ii. 60. *Gray, Griffith, A. K.* iii. 154. *Dum. et Bib. E. G.* iii. 228. C. niger, *Lesson, Ill. Zool. t.* 34.

Occiput flat, with a well-marked central longitudinal keel; face-ridge rather prominent, edged with larger tubercles and united in front; back, chin and belly with a denticulated crest; the scales moderate, with larger scattered ones.

*a.* In spirits. Bourbon. From the Paris Museum.

The Warty Chameleon. Chameleo verrucosus, *Cuv. R. A.* ii. 60. *Gray, Griff. A. K.* ix. 53. *Dum. et Bib. E. G.* iii. 210, *t.* 27, *f.* 1. C. monilifer, *Boie.*

Occiput triangular, pointed behind, with a high curved keel; dorsal, ventral and subcaudal line toothed; scales small, rounded, with scattered larger ones, and with a longitudinal series of circular scales on each side.

*a*, *b*. Adult. Madagascar. Presented by Capt. Sir Edw. Belcher, C.B., R.N.

*c*, *d*. Half grown. Madagascar. Presented by Capt. Sir Edw. Belcher, C.B., R.N.

††† *Scales unequal. Muzzle (of male?) with a central prominence.*

The Rhinoceros Chameleon. Chameleo rhinoceratus, *Gray, Ann. and Mag. N. H.* 1843, 46.

Dark, white-spotted, in spirits, with a pale streak in the middle of each side; nose with a large projecting trigonal prominence, with a single small keel on its lower edge, and 2 toothed keels on its upper edge; back and belly toothed, keeled; occiput with a central keel. (Male of *C. verrucosus ?*).

*a*. In spirits. Madagascar. Presented by Capt. Sir Edw. Belcher, C.B., R.N.

**** *Back with a toothed crest. Belly and sides simple.*

† *Chin and muzzle simple.*

The Tuberculated Chameleon. Chameleo tuberculiferus, *Gray.* Ch. Namaquensis, *A. Smith, Zool. Jour.*

Pale grey; occiput squarish behind, with a tubercle upon the hinder end of each lateral crest, and an ascending central crest, which is angular behind; muzzle and chin simple; back with a crest of distant conical tubercles; belly not crested; scales small, equal, granular.

*a*, *b*. Stuffed. S. Africa, Namaqua Land. From the South African Museum.

The Hooded Chameleon. Chameleo cucullatus, *Gray, Syn. Griff. A. K.* ix. 54. *Dum. et Bib. E. G.* iii. 227.

Occiput compressed, flat, with a rounded fleshy lobe on each side behind; dorsal and ventral line entire; muzzle straight; the scales oval, unequal.

*a*. Adult, in spirits. Madagascar. Presented by J. E. Gray, Esq.

†† *Chin simple. Muzzle compressed, produced.*

The Sharp-nosed Chameleon. Chameleo nasutus, *Dum. et Bib. E. G.* iii. 216.

Occiput triangular, shelving backwards; muzzle ending in a small compressed lobe of skin; back of the male with some rounded soft distant tubercles.

*a.* In spirits. Madagascar. From the Paris Museum.

††† *Chin simple. Muzzle of male forked.*

The Large-naped Chameleon. Chameleo bifurcus, *Brogn. Bull. Soc. Phil.* iv. *t. f.* 2. *Latr. Rept.* ii. 18. *Cuv. Oss. Foss.* v. 269, *t.* 16, *f.* 32, 33. *Gray, Phil. Mag.* 1827, 212. *Griff. A. K.* ix. 54. C. bifidus, *Daud. Rept.* iv. 217, *t.* 54. *Merrem, Tent.* 162. *Dum. et Bib. E. G.* iii. 233, *t.* 27, *f.* 3.

Occiput flat, semicircular; the muzzle prolonged into 2 large straight compressed lobes; front of the dorsal line denticulated.

*a.* Adult, in spirits, male? Nose-horns elongate, compressed, acute. Madagascar.

*b*, *c.* Nearly half-grown, in spirits, males? Nose-horns short, rather compressed, truncated. Madagascar. Presented by J. E. Gray, Esq.

*d* Half-grown, in spirits, female? Nose without any horns, occiput rather wider. Madagascar. Presented by J. E. Gray, Esq.

†††† *Chin bearded. Muzzle simple.*

The Fringed Chameleon. Chameleo Tigris, *Cuv. Mus. Paris, in Kuhl, Beytr.* 155. *Cuv. R. A.* ii. 60. *Gray, Phil. Mag.* 1827, 213. *Spic. Zool.* 3, *t.* 3, *f.* 2. *Dum. et Bib. E. G.* iii. 212. C. Seychellensis, *Peron, Kuhl, Beytr.* 105. *Gray, Phil. Mag.* 1827, 214. C. fimbriatus, *Wiedem.*

Occiput pointed, shelving behind, with a toothed keel, forked in front; back and chin with a small conical compressed beard; belly simple; scales small, flat, equal, quadrangular.

*a.* In spirits. Seychelle Islands. Presented by T. Bell, Esq. F.R.S.

The Belly-shielded Chameleon. Chameleo ventralis.

Occiput triangular, elongate, produced behind, with a low central keel and strong warty ridges; throat with compressed crowded denticulated lobes of skin; back and tail denticulated; belly simple; scales granular, with series of large flat circular scales on the sides of the body and tail, and crowded together on the sides of the belly.

*a*—*d.* In spirits. S. Africa.

The PEARLED CHAMELEON. Chameleo pumilus, *Latr. Rept.* 46. *Daud. Rept.* iv. 212, *t.* 53. *Gray, Phil. Mag.* 1827, 210. *Dum. et Bib. E. G.* iii. 218. C. Bonæ Spei, *Laur. Rept.* 46. C. margaritaceus, *Merrem, Tent.* 162. *Seba, Thes.* i. *t.* 82, *f.* 4, 5, bad.

Occiput triangular, elongate, narrow, with a low strong keel, with strong warty ridges; throat with compressed lobes of skin; back and tail denticulated; belly simple; scales small, granular, unequal, crowded, with a few scattered rather larger scales, and 1 or 2 series of larger scales on each side, of the belly small, nearly uniform.

*a—c.* Adult and half-grown, in spirits. South Africa, Cape of Good Hope.
*d, e.* In spirits. Cape of Good Hope.
*f, g.* In spirits. Cape of Good Hope. Presented by A. Mac Leay, Esq.
*h.* Young, in spirits. Cape of Good Hope. From H.M.S. Chanticleer.

***** *Back and belly not crested.*

PARSONS'S CHAMELEON. Chameleo Parsonii, *Cuv. Oss. Foss.* v. *t.* 16, *f.* 30, 31. *R. A.* ii. 60. *Gray, Phil. Mag.* 1827, 213. *Griff. A. K.* ix. 54. *Dum. et Bib. E. G.* iii. 231. Ch. Madecassus, *Lesson, Illust. Zool. t.* 35. Lacerta Chameleon, *δ. Gmel. S. N.* i. 1069. *Parsons, Phil. Trans.* lviii. 195, *t.* 8, *f.* 1, 2. *cop. Naturforscher*, v. 184, *t.*

Top of the head sloping, occiput broad, flattened, shelving; muzzle of male divided into 2 tubercular compressed erect lobes; dorsal and ventral line not toothed; scales small, quadrangular.

*a.* Adult female, stuffed. Muzzle unarmed. Madagascar. From M. Parzudaki's collection.

The THREE-HORNED CHAMELEON. Chameleo Owenii, *Gray, Zool. Misc.* 7, *t.* 4, old and young. Ch. tricornis, *Gray, Griff. A. K.* ix. *Dum. et Bib. E. G.* iii. 227. Ch. Bibronii, *Martin, P. Z. S.* 1828, 65.

Occiput flat, with a slight central ridge, contracted behind; head of male with 3 long subcylindrical conical pointed horns, 1 before each eye and 1 at the end of the muzzle; the scales small, roundish, uniform, close; dorsal and ventral line not toothed.

*a.* Adult male, in spirits. Fernando Po. Presented by J. E. Gray, Esq.
*b.* In spirits, male. Fernando Po. Presented by J. E. Gray, Esq.
*c.* In spirits, female with eggs, no horns. Fernando Po. Presented by J. E. Gray, Esq.

Chameleo Bibronii, *Martin, Proc. Zool. Soc.* 1838, 65.

Brookes' Chameleon. Chameleo Brookesianus, *Gray, Phil. Mag.* 1827, 419. C. Brookesii, *Gray, Spic. Zool.* 2, *t.* 3, *f.* 3. *Griff. A. K.* ix. 53. *Dum. et Bib. E. G.* iii. 235. C. superciliaris, *Kuhl, Beytr.*

Head cubic, forked in front; eyebrows angular, produced; dorsal and ventral line not denticulated, with a row of spines on each side of the back; tail rather short, thick at the base.

*a.* Adult? in spirits. From Mr. Brookes' collection.

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## ADDITIONS AND CORRECTIONS.

Page 5, after *Typhlopsidæ*, insert: —

20*Uropeltidæ. Head conical. Rostral shield short, triangular, erect, produced behind. Tail obliquely truncated above.

Page 17. Change the name of *Callopistes flavipunctatus* to C. maculatus, *Gravenh. Act. A. Nat. Cur.* xviii. 744, *t.* 55, *f.* 1.

Page 39. *Eremias arguta*, add: —

*a.* Adult, in spirits. Kirghiz Steppes. From Mr. Brandt's collection.

Page 48. *Zonurus Derbianus*, add Cordylus giganteus, *A. Smith, Ill. Z. S. Africa, Rept. t.* 35, 36, adult and young.

Page 50. *Gerrhosaurus flavigularis*, add: —

*b.* Adult, in spirits. Scales of the sides distinctly keeled. S. Africa. Presented by Dr. Richardson.

Page 50. *Gerrhosaurus typicus*, ventral shields 10- (not 16-) rowed; and add, occipital shields 5-sided.

Page 50. *Gerrhosaurus Bibronii*, add *A. Smith, Ill. Zool. S. Afr. Rept. t.* 38, *f.* 1, male.

Olive, with 4 longitudinal pale brown streaks on the back, the two central narrow and close; throat red; occipital shield rhombic; ventral shields 8-rowed.

Page 56. *Pseudopus Pallasii*, add: —

*b.* Young, in spirits. Interparietal plate large, convex, with some large plates near. Xanthus. Presented by Dr. Richardson.

Page 57. BRACHYPUS, add, Ventral shields smooth, in longitudinal series, square; dorsal and subcaudal scales 6-sided, in rings, in alternating series; the lateral groove slightly impressed in front, scarcely granulated.

Page 57. *Brachypus Cuvieri*, add: —

*a*, *b*. In spirits. West Indies. Presented by T. Bell, Esq. Chalcides terrestris, *Guilding*, *MSS*.

Page 70. 5. MOCOA, add, Toes 5-5; and add

5.* CARLIA. Rostral erect, triangular. Palate toothed. Toes 4-5.

Page 72, line 26, between *above* and *thick*, insert *; scales.*

Page 73, line 7, before *armed* add *un:* and erase the genus LARDELLA.

Page 73, after DIPLOGLOSSUS, add: —

27. OPHIODES. Body and tail cylindrical. Legs 2, posterior, on side of vent. See pp. 120 and 99.

Page 79, after *Hinulia Whitii*, add: —

††† *Dorsal scales large, in* 8 *or* 10 *series.*

RICHARDSON'S HINULIA. Hinulia Richardsonii, *Gray*, *Zool. Erebus and Terror*, *t.*

Pale brown; body with 8 or 9, tail with 10 or 12 broad rather irregular dark cross bands; beneath silvery; the ears with 4 or 5 small slender denticulations in front; body rather elongate; tail elongate, subcylindrical, tapering; temples with large shields; feet rather small. Like *Plestiodon* in habit, but has no supranasals.

*a*. In spirits. Australia, H. Abrolhos. Presented by B. Bynoe, Esq.

Page 81. *Mocoa melanopogon*. This species should be referred to a new genus, which may be thus characterized.

5.* CARLIA.

Head subquadrangular. Rostral erect, triangular, convex. Nasals lateral, nearly contiguous; supranasal none. Palate toothless. Ears oblong, toothed in front. Lower eyelid with a transparent disk. Body fusiform. Scales smooth. Limbs 4, moderate. Toes 4-5, compressed, the two middle front elongate. Tail round, tapering.

The BLACK-CHINNED CARLIA. Carlia melanopogon.

Page 82, line 9, for *interparietal* read *frontoparietal.*

Page 83. After *Mocoa microtis*, add : —

Owen's Mocoa. Mocoa Owenii, *Gray, Zool. Erebus & Terror, t. f.* Lacerta Tæniolata, *Cat. Mus. Col. Surg. n.* 206. Ribbon Lizard, *White's Voy.*

Pale yellow; back with 3 darker-edged brown streaks; sides with a broad upper and a narrow indistinct lower streak; crown brown-varied; limbs brown-streaked; tail with 3 brown streaks; ears rounded, with 3 or 4 minute denticulations in front; frontoparietals distinct; disk of lower eyelid moderate, subcentral.

*a.* In spirits. "Australia." Presented by the Trustees of the College of Surgeons.

Page 83. After *Mocoa cuprea*, add : —

The Large Mocoa. Mocoa grandis, *Gray, Zool. Erebus & Terror, t. f.*

Black, closely yellow-spotted, forming interrupted streaks; beneath whitish; soles of the feet black; ears rather large, roundish, with some granular scales in front; frontoparietals distinct; disk of lower eyelid moderate, subcentral.

*a.* In spirits. South Island, N. Zealand. From Mr. Earl's collection.

Page 86. *Tetradactylus Decrescensis*, add : —

*b.* In spirits. Swan River.

Page 87. *Hemiergis Decresiensis*, erase *a.* and add : — Inhab. Kangaroo Island. Mus. Paris, 1 specimen.

Page 101. *Tribolonotus Novæ Guineæ*, add : —

*a.* Adult, in spirits. New Guinea. From the Leyden Museum.

Page 106, line 7, for *scales* read *keels.*

Page 107. *Tropidolepis major*, add : —

*b.* In spirits. Young? Black-varied, back with 4 series of white spots, sides pale varied. N.W. Australia. Presented by Dr. Richardson.

Page 114. *Euprepis maculilabris*, add : —

*b, c.* In spirits. Var. ? Scales of the back 3-keeled, of the sides 4 or 5 keeled. W. Africa. From the W. African Expedition. Perhaps a distinct species.

Page 124, for *Bogerii* read *Bojerii.*

Page 203. Add before *Anolius punctatus*, a.

Page 131. Stenostoma *change to* Argyrophis. See p. 136.

Page 140, after *Epictia bilineatus*, insert *Typh. bilineatus.*

Page 144, after 9. HEMIDACTYLUS, insert: —

9.*NUBILIA. Tail rather depressed, subangular above, with cross rings of spines, the lower edge denticulated. Toes nearly free. Sides simple.

Page 154, line 31, for *Inhab.* ——— ? insert: —

*a*. In spirits. ——— ?

Page 156, before 10. VELERNESIA, insert: —

9.* NUBILIA.

Toes very slightly webbed at the base, rather dilated, last joint compressed, clawed. Sides and hinder part of the thighs simple. Tail rather depressed, flat beneath, sharp-edged, with a series of spines on the edge, and distant rings of spines with a series of broad shields beneath. Sides of body and limbs rounded, simple. The back with a series of larger triangular tubercles. Femoral and preanal pores (none?)

ARGENT'S NUBILIA. Nubilia Argentii.

Pale brown, with irregular dark cross bands; face with a black streak on each side; back with large high angular tubercles.

*a*. In spirits. Singapore. From Mr. Argent's collection.

Page 157, line 34, after *scales* add, *and larger tubercles.*

Page 161, line 18, add after P. Jamori, *Fauna Japon. Saur. t.* 2, *f.* 1—4.

Page 169. *Naultinus pacificus*, erase specimen *b*. add scales minute; and add: —

*c*—*g*. Pale brown, with 3 more or less divided and longitudinal black streaks. New Zealand. From Mr. Earl's collection. *Zool. Erebus & Terror, t. f.* Toes vary in length, perhaps sexual.

N. brevidactylus, *MSS.*

*h*, *i*. Brown, with scattered black spots. New Zealand. From Mr. Earl's collection. *Zool. Erebus & Terror, t. f.* Toes short, perhaps sexual.

N. maculatus, *MSS.*

The GRANULAR NAULTINUS. Naultinus granulatus. N. pacificus, var. *Gray, Dieffenbach*, and *spec. b. Catal. p.* 169.

Pale brown, with irregular darker cross bands, with white edges in front; scales granular, moderate, of under side larger; labial shields gradually smaller.

*a*. In spirits. New Zealand, Dr. Dieffenbach. Presented by R. Owen, Esq.

*b*. In spirits. New Zealand. From Mr. Earl's collection.

Page 170, before *Eublepharis Hardwickii*, insert: —

* *Tail annulate, with small square scales above and below.*

And after *E. Hardwickii*, insert: —

** *Tail ringed, tubercular, with small scales above and larger shields beneath.*

Lord Derby's Eublepharis. Eublepharis Derbianus.

Brown, black spotted and varied; scales granular; back and limbs with keeled, larger, convex, half oblong, transverse tubercles; scales of the head granular, equal; tail with 3 tubercles on each side of the base, slightly ringed, with a series of broad shields beneath.

*a*. In spirits. Not in good state. N. Australia, Port Essington. Presented by the Earl of Derby.

Part 175, after *Cubinia fasciata*, insert: —

Darwin's Cubinia. Cubinia Darwinii.

Brown, darker marbled and minutely white dotted; scales minute, granular, with 18 longitudinal series of small triangular tubercles; lower rostral plate large, 3-sided behind, with a small chin-shield on each side; lower labial shields 5-1-5.

*a*. In spirits. Bahia. Presented by Charles Darwin, Esq.
*b*. In spirits. Rio Janeiro. Presented by Charles Darwin, Esq.

Page 203, after Dotted Anolis, insert Anolius Grahami; and after synonym add, not of Daudin.

Page 218, after Leiocephalus Schrebersii, insert: —

The Small-scaled Roquet. Leiocephalus microlepis.

Olive, darker varied; scales of back small, rhombic, strongly keeled, of the tail larger, of the belly rather larger, of the middle smooth, of the sides keeled; crest of the back and tail compressed, of the tail higher; head-shields smooth; eyelid-disk with 7 or 8 broad plates, the hinder ones obscurely 3 or 4 keeled; interparietal plate large, oblong.

*a*. Stuffed. Tropical America.

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E. NEWMAN, 9, DEVONSHIRE ST., BISHOPSGATE, LONDON.

# CATALOGUE

OF THE

# SPECIMENS OF SNAKES

IN

# THE COLLECTION

OF THE

# BRITISH MUSEUM.

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# INTRODUCTION.

THE chief object in preparing the present Synopsis has been to give at one view a complete Catalogue of all the species of Snakes now in the British Museum collection, and an account of the species known to exist in other collections, but which are desiderata in the Museum collection, to enable travellers, collectors, and others, to assist in completing the national collection.

At the end of the description of each species is added an enumeration, stating the state, age, country, and other peculiarities of each specimen of the kind in the Museum collection; and when the specimen is not in that collection, the museum or collection in which it has been observed or described is added after the general habitat of the species. The individuals in the Museum collection are indicated by the letters *a*, *b*, *c*, &c.

When the age of the specimen is not stated, it is to be understood that it is full grown, or nearly so; when otherwise, its state is marked; and the sex, when known, and the habitat, as particularly as the materials possessed by the Museum will permit, are added after the letter by which the individual is indicated.

Those specimens which have been presented to the Museum have the name of the donor marked immediately after the habitat. When there is no such indication, the specimens have been either purchased or procured in exchange; and in this case, whenever the place or person from whom they have been received gives authenticity to the specimen, or adds anything of moment to their history, they are noted as being from such or such a collection or person.

Great care has been taken to use the generic and specific names first given to the group or species, and a reference has been made to the works in which the genera and species have been described and figured, and in most instances the dates of publication of the works referred to have been added.

I may here remark that the names quoted from the '*Schema Systematis*,' attached to *Fitzinger's* '*Systema Reptilium*,' 1843, 8vo, where the name and the type of each genus is given, are without characters, as the genera of lizards are alone characterized in that work. I have nevertheless used his name when I have considered it requisite to form a group of any of the types mentioned, rather than overburthen the science with other names. A list of the families and genera, but without the types and the subgenera and their types, which alone renders the list of any avail, is printed in *Dumeril and Bibron's Erp. Générale*, vi. 61, 1844, as extracted from a MSS. work which they entitle '*Conspectus Systematis Ophidiorum*.'

I was not aware of Fitzinger's publication when the other part of this Catalogue was published, or I should have referred to it and used his names instead of the new ones I introduced.

To determine with accuracy the names and synonyms of the species, the Museums of Paris, Leyden, Berlin, Vienna, Francfort, and other large continental collections, have been personally examined. Many of the specimens in the Museum collection have been received from the original describers. So that there is every reason to believe they are named in perfect accordance with the various continental collections.

Mr. Mitchell, the Secretary of the Zoological Society, and Dr. Horsfield, of the East India Company's Museum, having kindly allowed me to compare the specimens in their Museums with those in the Museum collection, have rendered the series more complete, and enabled me to determine with certainty the synonyma of the typical specimens in these collections.

The specimens presented by

*Sir Joseph Banks, Bart.,*

*Capt. White,*

*Patrick Russell, M.D.,* and

*J. Weeks, Esq.,* may be regarded as the types of the species described by Dr. G. Shaw, in the *General Zoology* or *Zoological Miscellany.*

*Andrew Smith, M.D.,* as the types of the African species described by this naturalist in his *Illustrations of the Zoology of South Africa.*

*T. E. Bowditch, Esq.,* as the species described by Dr. W. Elford Leach, in Mr. Bowditch's Ashantee.

*Charles Darwin, Esq.,* and

*Capt. Fitzroy, R.N.,* as the types of the species described by Mr. Bell in the *Zoology of H.M.S. Beagle.*

*M. De Blainville,* as the types of the species described by that Professor in the *Nouveaux Memoires du Museum.*

*M. Bibron,* and

*The Directors of the French Museum,* as the types of the species described by MM. Dumeril and Bibron in their *Erpétologie Générale.*

*The Hon. East India Company,* as the types of the species described by Dr. Cantor, in his *Fauna of Chusan.*

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*Sir John Richardson, M.D.,*

*W. Shuckard, Esq.,*

*Lieut. Alexander Smith, R.N.,*

*Capt. E. Stokes, R.N.,* and

*Rev. W. Wilton,* as the types of the Australasian species described by me in the *Proceeedings of the Zoological Society,* the Appendices to *Capt. Grey's Australia, Jukes's Australia, Capt. L. Stokes's Australia,* and the *Zoology of H.M.S. Erebus and Terror.*

*Miss Emilie Attersoll,*

*Professor Bonelli,*

*T. Brightwell, Esq.*

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*A. Christy, Esq.,*

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*Lieut. John Ince, R.N.,*

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*J. Miller, Esq., R.N.,*

*J. Ritchie, Esq.,*

*Edward Ruppell, M.D.,*

*Hon. Arthur Russell,*

*P. B. Webb, Esq.,* and

*Sir J. G. Wilkinson,* as illustrative of the species described as coming from Southern Europe, Northern Asia and N. Africa, by Professors Lichtenstein and Milne-Edwards, Dr. Ruppell, MM. Dugés, Audouin, Bibron, and other authors.

*T. Bowditch, Esq.,*

*Col. Denham,*

*Earl of Derby,*

*A. Gerard, Esq.*

*John Lee, LL.D.,*

*A. MacLeay, Esq.*,
*Capt. Marryatt*,
*M. Petit*,
*W. Raddon, Esq.*, and
*Dr. Stanger*, as illustrative of the species found in Southern and Western Africa, and described by Dr. A. Smith, Dr. Burchell, and others; and a small collection presented by myself, as illustrative of those found in the Island of Madagascar, and chiefly described by the French authors.
*Sir John Barrow, Bart.*,
*Capt. Sir Edward Belcher* (from Borneo),
*Major Bevan*,
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*Dr. Packman* (Tenasserim),
*J. Reeves, Esq.* (China),
*Rev. Gerard E. Smith*,
*Capt. Stafford*,
*Col. Stoddart* (Ceylon), and

*Col. Sykes*, as illustrative of the Indian, Chinese, Bornean, and other Asiatic species, described by me in the *Illustrations of Indian Zoology*, the *Zoological Journal*, and other papers.

*Edward Doubleday, Esq.*,

*Richard Harlan, M.D.*,

*Jacob Green, M.D.*,

*Dr. Macaulay*, and

*W. Ogilby, Esq.*, as illustrative of the North American species described by Say, Harlan, Green, Holbrook, and other American authors.

*Capt. Sir Edward Belcher* (from Rio),

*Thomas Bell, Esq.* (W. Indies),

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*E. Cooke, Esq.*,

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*J. P. Geo. Smith, Esq.* and *Mrs. Smith* (N. Brazil),

*Lord Stuart de Rothesay* (Brazil),

*J. E. Winterbottom, Esq.* (W. Indies), and

*J. Wright, Esq.*, as the illustrations of the species from Tropical and South America and the West Indies, described by Sir Hans Sloane, Browne, Wagler, Spix, Gravenhorst, Guilding, and others.

The specimens purchased or procured in exchange from

*The Leyden Museum*, as the types of the species described and figured by Dr. Schlegel, in his *Fauna of Japan* and in his *Abbildungen*, and by Dr. S. Muller, in his work on the *Reptiles of New Guinea, Borneo, &c.*

*The South African Museun*, as the types of the species described by Dr. A. Smith, in his *Illustrations of the Zoology of South Africa.*

*M. Brandt's Collection*, as the types of the species described by Pallas, Eversmann, and other Russian naturalists.

JOHN EDWARD GRAY.

*British Museum,*
*October* 1, 1849.

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# SYNOPTIC CATALOGUE

OF

# REPTILES.

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## Order II. SNAKES (OPHIDIA).

Mouth dilatable, all the facial bones moveable. Jaws toothed: lower jaw-bones only united by ligaments in front. Eyes without eyelids. External ears none. Tongue very long, retractile into a sheath at its base; the apex forked, very long, slender, tapering. Limbs none or only rudimentary, in the form of spurs on the side of the vent. (See *Meyer, Acta Acad. Nat. Cur.* xii.) The body of each vertebra articulated by a convex facet, fitting into a concavity in the front of the following one. The palatine arches mobile and armed with acute recurved teeth. The windpipe is very long. One of the lungs very large; the other very small or rudimentary. The heart in the hinder part of the body. The mastoid bone is detached in all except the genus *Tortrix* of Oppell.

Ophidia, *Rafin. Anal. Nat.* 76, 1815. Ophidii pars, *Oppell, Rept.* 47. Ophidii, *Gray, Ann. Phil.* 1825, 204. Serpents propre-ment dit, *Cuvier, R. A.* ii. 60; *ed.* 2, ii. 7, 74. Serpentia gulones, *Merrem, Tent.* 81. Ophidi, § 2, *Bibron.* Serpentes Theciglossi, *Wagler, Syst. Amph.* 165.

*Synopsis of the Families.*

Sub-order I. VIPERINE. *Jaws weak; upper toothless, with fangs in front; lower toothed. Ventral shields broad, band-like. Head large behind; crown flat, generally covered with scales, rarely with shields. Hinder limbs not developed. Eyes lateral. Nostrils apical, lateral.*

1. CROTALIDÆ. Face with a large pit on each side, placed between the eye and the nostril.

2. VIPERIDÆ. Face without any pit on the cheek.

Sub-order I. COLUBRINE. *Jaws strong, both toothed, sometimes with some fangs in front or grooved teeth behind. Head moderate or indistinct; crown often covered with regular shields.*

Sect. I. *Belly covered with narrow, elongate shields or scales, nearly resembling those of the back.*

3. HYDRIDÆ. Vent without any spurs like rudimentary feet. Nostrils superior, valvular. Eyes superior; pupil round. Tail often compressed. Belly covered with narrow shields or with scales like those of the back, the central series sometimes united together in pairs, forming a narrow 6-sided shield.

4. BOIDÆ. Vent with spur-like rudimentary feet on each side. Eyes and nostrils lateral. Tail conical, generally prehensile. Ventral shield narrow, transverse, band-like.

Sect. II. *Belly covered with broad, band-like shields. Vent without any spur-like feet. Tail conical, tapering.*

5. COLUBRIDÆ. Nostrils apical, lateral, open. Head generally shielded.

## Sub-order I. VIPERINE. VIPERINA.

Jaws weak; upper jaw toothless, with large fangs in front: lower toothed. Ventral shields broad, band-like. Head large behind; crown flat, generally covered with scales, rarely with shields. Hinder limbs not developed. Eyes lateral. Nostrils lateral, apical, open.

Viperina, *Rafin. Anal. Nat.* 77, 1815. Les serpents vénéneux par excellence ou à crochet isoles, *Cuvier, R. A.* ii. 75, 1817. Serpentia Gulones venenati, *Merrem, Tent.* 141, 1820. Les Serpents Vénéneux proprement dit, *Schlegel, Phys. Serp.* 520. Macrostomata Holochilina, *Muller, Zeitsch. f. Phys.* iv. 263. S. Chondropodes ou apodes, *Meyer.* S. Chalinophidia pars, *Fitz. Syst. Oph.* Ophidiens Thanatophides, *Dum. & Bib. Erp. Gen.* vi. 71, 1846. Ophidii venati, *Gray, Ann. Phil.* 1825, 204.

### Fam. I. RATTLE-SNAKES (CROTALIDÆ).

Face with a large pit on each side, placed between the eye and the nostril. The head large behind, crown flat, covered with scales or small shields (except *Sepedon* and *Caudisona*); the jaws weak, the upper with long fangs in front and no teeth. The belly covered with broad band-like shields: anal spurs none. Venomous. Viviparous.

*Synon.*—Crotalina, *Oppell*, 1811. Crotaloidea, *Fitz. N. Class. Rept.* ii. 62, 1826. Bothropsis, *Fitz. Syst. Oph.* 1846. Crotalidæ, *Gray, Zool. Misc.* 47, 1842. Cophiadæ, *Boie, Isis*, xx. 510, 1827. Crotalidæ & Viperidæ pars, *Gray, Ann. Phil.* 1825, 204.

#### *Synopsis of the Genera.*

A. *Head covered with scales, having small shields on the edge of the forehead and eyebrows; tail ending in a spine; cheeks scaly.*

a. *Subcaudal plates two-rowed to the tip.* Craspedocephalina.

1. CRASPEDOCEPHALUS. Superciliary shield single, hinder labial shields large; scales lanceolate, keeled. America.

2. TRIMESURUS. Superciliary shield single, hinder labial shields smallest; scales lanceolate, keeled. Asia.

3. Parias. Superciliary shield single, hinder labial shields smallest; scales lanceolate, of head and body smooth, of crown unequal. Asia.

4. Megæra. Superciliary shield double, hinder labial shields smallest; scales lanceolate, of head and body smooth. Asia.

5. Atropos. Superciliary shields many, forming a prominent arched series. Asia.

b. *Subcaudal plates four-rowed at the tip.* America. Lachesina.

6. Lachesis. Head ovate; crown scaly.

B. *Head more or less shielded.*

c. *Subcaudal plates two-rowed; tail ending in a spine; cheeks not scaly; head-shields with some additional plates in front.* Trigonocephalina.

7. Trigonocephalus. Dorsal scales keeled.

d. *Subcaudal plates one-rowed; tail ending in a spine; cheeks not scaly; head shielded.* America. Cenchrina.

8. Cenchris.

e. *Subcaudal plates one-rowed; tail ending in a rattle; cheeks scaly; head more or less shielded.* America. Crotalina.

9. Crotalophorus. Head with nine large shields extending behind the eyes.

10. Uropsophus. Head with scales behind; temporal scales and labial shield moderate.

11. Crotalus. Head with scales behind; temporal scales and labial shields very small, convex.

I. *Head scaly, with small shields on the edge of the forehead and eyebrows; tail ending in a spine; cheeks scaly.*

a. *Subcaudal plates two-rowed to the tip* (Craspedocephalina).

### 1. Craspedocephalus.

Scales lanceolate, keeled: hinder labial shields largest. Confined to the New World.

*Synon.*—Craspedocephalus sp., *Kuhl*, 18. *Fitz. N. Class. Rept.* 62, 1826. Bothrops, Sect. I., *Wagler, Serp. Braz.* 50. *Amph.* 174, 1830. Bothrops, *Gray, Zool. Misc.* 47, 1842. Trigonocephalus sp., *Oppell, Rept.* 65. *Schlegel, P. S.* 527. Vipera sp., *Merrem, Tent.* 154. *Gray, Ann. Phil.* 1825. *Anatomy, Schlegel, P. S.* 535. *Meckel, Arch.* i. *t.* 1, *f.* 1. *Duvernoy, Ann. Sci. Nat.* xxvi. *t.* 10, *f.* 6; xxx. *t.* 14.

The species of this genus are very difficult to separate, especially when they have been kept in spirits for some time. In the 'Zoological Miscellany' I attempted to divide them by the form of the second labial shield and head-shield, but these characters appear to vary with the individual specimens.

* *Body olive or gray; labial plates* 9 *or* 10 *on each side, the* 3 *or* 4 *hinder ones smaller.*

1. The Jararaca. Craspedocephalus Brasiliensis. La Brasiliense, *Lacep. Quad. Ovip.* ii. 119, *t.* 4, *f.* 1. Vipera Brasiliensis, *Latr. Rept.* iv. 7. Cophias Jararaca, *Neuwied, Beitr.* 468. *Abbild.* viii. *t.* 5. C. atrox, *Neuwied, Abbild.* vii. *t.* 3. Bothrops Megæra, *Wagler, Serp. Braz. t.* 19. B. leucostigma, *Wagler, S. B. t.* 21, *f.* 1. B. furia, *Wagler, S. B. t.* 20. B. tesselatus, *Wagler, S. B. t.* 21, *f.* 2. B. tæniatus, *Wagler, S. B. t.* 21, *f.* 3. Trigonocephalus Jararaca, *Schlegel, Phys. Serp.* 532, *t.* 19, *f.* 1, 2. Crasp. Jararaca, *Fitz. N. Class. Rept.* 62.

Dark olive-yellow and pale olive marbled; beneath yellow, olive marbled: head with symmetrical yellow lines: upper labial shields 10; the anterior upper lateral plate large; the second small; the third, fourth and fifth large, yellow; the seventh, eighth, ninth and tenth smaller, olive; the anterior lower labial shield yellow, varied with a narrow yellow streak on the temple from the back edge of the eye.

*a* and *b*. In spirits. Adult. Brazil.

2. The Fer de Lance. Craspedocephalus lanceolatus, *Fitz. N. Class. Rept.* 62. Trigonocephalus lanceolatus, *Oppell, Rept.* 66. *Schlegel, P. S.* 537, *t.* 19, *f.* 3, 4. Vipera cærulescens, *Laur. Syn.* 101. Coluber glaucus, *Gmelin, S. N.* i. 1092. Le fer de lance, *Lacep.* 20, ii. 121, *t.* 5, *f.* 1. *Duvernoy, Ann. Sci. Nat.* xxvi. *t.* 10, *f.* 6, *and* xxx. *t.* 14. Coluber Megæra, *Shaw, Zool.* iii. 406. Cophias lanceolatus, *Merrem, Tent.* 15. Trigonocephale des Antilles, *Moreau de St. Jones.*

Olive, darker cross-banded, beneath whitish, very minutely punctated; scales narrow, strongly keeled: head brown: upper labial shields 8, the two or three hinder ones smaller than the middle

ones; upper and lower labial shields, the chin and beneath white; temple streak a broad dash extending across the upper part of the fifth, sixth and seventh upper labial shields.

*a*. In spirits. Half grown. Brazil. Presented by Lord Stuart de Rothsay.

*b*. In spirits. Male, adult. Brazil. Presented by Lord Stuart de Rothsay.

*c*. In spirits. Half grown. Brazil. Presented by Lord Stuart de Rothsay.

*d, e*. In spirits. Half grown? Jamaica? Rev. Lansdown Guilding's collection.
Trigonocephalus lanceolatus, *Guilding MSS.*

*f*. In spirits. Young. W. Indies, St. Lucia. Presented by Miss Alexander.

*g*. In spirits. Young, not good state. Demerara. Presented by Dr. Hancock.

*h*. In spirits. Half grown, not good state. S. America. Presented by Miss Bancroft.

** *Body olive or gray; the 1st and 2nd upper labial shields moderate, the remainder (3rd to 7th) large and subequal.*

3. The Atrox. Craspedocephalus atrox, *Fitz. N. Class. Rept.* 61. Trigonocephalus atrox, *Gray, Ann. Phil.* 1825. *Schlegel, P. S.* 535, *t.* 19, *f.* 5, 6. Col. atrox, *Linn. Mus. Adol. t.* 22, *f.* 2. Vipera atrox, *Laur.* 103. *Latr. Rept.* iv. 4, *fig.* . Cophias atrox, *Merrem, Tent.* 154. Bothrops Neuwildii, *Wagler, Serp. Braz. t.* 22, *f.* 1. B. leucurus, *Wagler, Scop. Braz. t.* 22, *f.* 2, very young.

Olive, darker varied: head dark; side of face, legs and beneath white; temporal streak dark, oblique, extended across the upper edge of the last labial shields.

*a, b*. In spirits. Adult and young. Mexico. From Mr. Warwick's collection.

*c—e*. In spirits. Adult. Mexico. From Mr. Wego Tincker's collection.

*f—h*. In spirits. Adult and young. Demerara. Presented by Colonel Sabine, R.E.
Bothrops Sabini, *Gray, Zool. Misc.* 47.

*i*. In spirits. Adult. Berbice. Presented by Colonel Sabine, R.E.
Bothrops subscutatus, *Gray, Zool. Misc.* 47.

*j*. In spirits. Adult. S. America.
Bothrops Megæra, *Gray, Zool. Misc.* 47.

*k*. In spirits. Half grown. S. America. Presented by A. Mac Leay, Esq.
Bothrops cinereus, *Gray, B. M. Zool. Misc.*

Var. 1. Like the preceding, but the upper and lower lips are dark, being very closely and minutely punctulated.
Bothrops affinis, *Gray, Brit. Mus.* 1848.

*l*. In spirits. Half grown. Berbice. Presented by Lady Essex.
*m, n*. In spirits. Young. Tropical America.
*o*. In spirits. Young. Demerara. Presented by Lieut. Friend, R.N.
*p*. In spirits. Young. Tropical America.

4. The Elegant fer de Lance. Craspedocephalus elegans.
Pale brown: back with a central series of oblong spots, and a series of small round spots on each side: head brown; crown with a dark streak on each side of the back of the neck; temple, side of face, the lips and under part pale, minutely punctulated; temporal streak narrow, oblique, extending across the upper half of the series of scales above the hinder upper labial shields.

*a, b*. In spirits. Adult and young. West coast of (North?) America? Presented by Capt. Sir Edward Belcher, C.B., R.N.

**** Green, with yellow lateral streak.*

5. The Green fer de Lance. Craspedocephalus bilineatus. Trigonocephalus bilineatus, *Schlegel, R. S.* ii. 540, *t.* 19, *f.* 7, 8. Cophias bilineatus, *Pr. Max. Beytr.* 37, 483. *Abbild.* v. *t.* 6.
Green-brown, varied beneath yellowish, compressed: scale very small, lanceolate, keeled, with a yellow line on the lower part of each side: lips yellow: temporal streak reddish: upper labial shields 7, the hinder one smaller than the lateral ones.
Inhab. Brazils.

## 2. Trimesurus.

Scales lanceolate, keeled: hinder labial shields small; head-scales convex or keeled; superciliary shield single, half-ovate or linear. Confined to the Old World. Asia.
Trimesurus, *Gray, Zool. Misc.* 48, 1842. Trimesurus sp., *Lacep. Ann. Mus.* iv. Bothrops, Sect. II., *Wagler, Amph.* 174, 1830. Tropidolæmus, *Wagler, Amph.* 175, 1830.

* *Second labial plate very high, forming the front of the suborbital pit: back uniform, with a white line on each side.* Trimesurus.

† *Superciliary shield half-ovate.*

1. The Green Trimesurus. Trimesurus viridis, *Lacep. Ann. Mus.* iv. 19. *Gray, Zool. Misc.* 48. Cophias viridis, *Merrem,*

*Tent.* 155. Vipera viridis, *Daud. Rept.* vi. 112. Bodroo Pam, *Russell, Ind. Serp.* i. *t.* 97, *t.* 20. Coluber gramineus, *Shaw, Zool.* iii. 420. Trigonocephalus viridis, *Schlegel, P. S.* 554, *t.* 19, *f.* 12, 13. *Voy. Coq.* ii. 2, 18.

Head-shields smooth; scales of the body obscurely keeled.

*a.* In spirits. Half grown. India.
*b.* In spirits. Adult. India.
*c, d.* Young and very young. Affghanistan.

†† *Superciliary shield linear, rudimentary.*

2. The White-lipped Trimesurus. Trimesurus albolabris, *Gray, Zool. Misc.* 48.

Green; upper and lower lip, the upper part of the supra-abdominal row of scales, and the lower edge of the row above them, white: belly yellowish green, bluish on the sides: head-shields smooth, convex; scales obscurely keeled.

*a.* In spirits. Adult? China. Presented by John Reeves, Esq.
*b.* In spirits. Younger. China. Presented by John Reeves, Esq.

3. The Keeled Trimesurus. Trimesurus carinatus, *Gray, Zool. Misc.* 48.

Green? scales large, strongly keeled, the supra-abdominal series with a white central streak; head-shields convex, rounded.

*a.* In spirits. Young. India. Presented by James Inskip, Esq.

4. The Purple Trimesurus. Trimesurus purpureus, *Gray, Zool. Misc.* 48. Trigonocephalus purpureo-maculatus, *Gray, Illust. Ind. Zool. t.* . Trig. Wagleri, var., *Schlegel, P. S.* 543.

Purple (in spirits red-brown); lateral streak and beneath whitish; head-shield convex, smooth.

*a.* In spirits. Adult. Singapore. Presented by General Hardwicke.

** *The second labial plate much smaller than the third, with a square shield above it, which forms the front edge of the suborbital pit: head large: back spotted or banded, without any continued pale lateral line.* Tropidolæmus, *Wagler.*

5. The Spotted Trimesurus. Trimesurus maculatus, *Gray, Zool. Misc.* 48.

Green, with a series of small, distant, brown-backed spots on

each side; temporal streaks, upper white, lower red: head-shields keeled: end of tail rufous, curled.

*a*. In spirits. Adult. Singapore. Presented by General Hardwicke.
*b*. In spirits. Adult. Borneo. Presented by J. Brooks, Esq.
*c*, *d*. In spirits. Adult. Borneo. From Mr. Lowe's collection.
*e*. In spirits. Adult. Borneo. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

Var. 1. The spots elongate, transverse, forming a series of narrow cross lines on each side, edged with brown behind.

*f*. In spirits. Young. Singapore. Presented by General Hardwicke.

6. The NARROW-RINGED TRIMESURUS. Trimesurus subannulatus, *Gray*, *Zool. Misc.* 48. Trigonocephalus Wagleri, var., *Mus. Leyden.*

Green, with a series of distant, narrow, white cross bands, edged with black in front, and ending in a spot at the side of the abdomen: occiput with two black spots: temple with superior white and inferior black streaks: abdomen whitish, hinder part with a few black spots: end of tail green, black and white ringed: head-shields keeled.

Var.? Young, the white bands varied with brown in front, and the spots on the side and hinder part of the belly brown; tail dark red-brown.

*a*. In spirits. Adult. Philippines. From Mr. Cuming's collection.
*b*. In spirits. Half grown, injured. Philippines. From Mr. Cuming's collection.
*c*. In spirits. Half grown. Philippines. From Mr. Cuming's collection.

Var. Cross bands shorter and sometimes roundish, spot-like, without any dark front edge.
Trim. maculatus, var. 1, *Gray*, *Zool. Misc.* 48.

*d*. In spirits. Adult. Celebes. From the Leyden Museum. Head green, not spotted; no spot on side of abdomen.
Trigonocephalus Wagleri, var. Celebensis, *Mus. Leyden.*
*e*. In spirits. Adult, not good state. Sumatra. From the Leyden Museum. Head green, black varied; no spot on side of abdomen.
Trigonocephalus Wagleri, var. Sumatrenis, *Mus. Leyd.*

7. The Philippine Trimesurus. Trimesurus Philippensis, *Gray, Zool. Misc.* 48.

Green, with a series of black spots on each side of the back; lips and beneath yellow, with distant, small, black spots on each side, near the edge of the abdominal plates: temporal streak blackish: tail black-banded, end red, compressed and curved; head-shields keeled.

*a*. In spirits. Adult? Philippines. From Mr. Cuming's collection.

8. The Strigated Trimesurus. Trimesurus strigatus, *Gray, Zool. Misc.* 48.

Olive, with large dark spots on the back; crown with two white spots on the hinder part, with a broad streak from the back of the eyes and two triangular bands on the white upper lip; beneath white, marbled with dark olive.

Inhabits Cape of Good Hope? Madras? Mus. Army Med. Board, Chatham.

9. The Sumatran Trimesurus. Trimesurus Sumatranus, *Gray, Zool. Misc.* 48. Coluber Sumatranus, *Raffles, Linn. Trans.* xiii. 334. Trigonocephalus ornatus, *Gray, MSS. B. M.* T. Wagleri, *Schlegel, P. S.* 542, *t.* 19, *f.* 16, 18. Cophias Wagleri, *Boie, Erp. Java, t.* 49. *Isis*, 1827, 561. *Seba*, ii. *t.* 68, *f.* 4. Tropidolæmus Sumatranus, *Wagler, Syst.* 175.

Black; dorsal scales marked with a yellow or greenish spot; lateral scales yellow, black edged; lips and throat orange; head-shields keeled.

*a*. In spirits. Adult. Singapore. Presented by General Hardwicke.

*b*. In spirits. Adult. Penang. From Capt. Hay's collection.

10. Muller's Trimesurus. Trimesurus formosus. Trigonocephalus formosus, *Muller, Vert. Rept. t.* 7.

Yellow; scales green edged; back with black crosslace; crown green, yellow varied; lips and beneath yellow, scales black edged; tail red, with black bands.

Inhab. ——— ? *Muller.*

Var. 1. Tail dark, yellow varied.

*a*, *b*. In spirits. Adult. Borneo. Presented by James Brooks, Esq.

*c*. In spirits. Adult. Borneo. From Mr. Lowe's collection.

*d*. In spirits. Adult. Borneo. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

11. The Ceylon Trimesurus. Trimesurus? Ceylonensis, *Gray, Zool. Misc.* 48.

Olive, with dark spots and marks, and a white streak from the back edge of the eye on each side of the neck.

Inhabits Ceylon. Mus. Army Med. Board, Chatham.

### 3. Parias.

Superciliary shields single; hinder labial shields smallest: scales lanceolate, of head and body smooth, of crown unequal; tail ending in a rather large impressed claw. Asia.

Megæra, § 2, *Gray, Zool. Misc.* 48.

1. The Yellow-spotted Parias. Parias flavomaculatus. Megæra flavomaculatus, *Gray, Zool. Misc.* 49.

Olive-green, nearly uniform (in spirits); beneath paler, varied with yellow; chin yellow, varied; sides with a series of large orange-yellow spots on the lowest series of scales; tail brown-banded; head-shield large.

*a, b.* Philippine Islands. Purchased of Mr. Cuming.

Var.? Young? green (in spirits), with close white spots forming nearly a continued band on each side. Smaller.

2. The Ornamented Parias. Parias ornata. Megæra ornata, *Gray, Zool. Misc.* 49.

Olive-green (in spirits); back with a series of irregular brown spots forming a band across the tail; sides of the body with a lower series of brown and an upper of white spots, forming together a broad band: beneath paler green; chin whitish green.

*a.* In spirits. Philippine Islands. Purchased of Mr. Cuming.

3. The Variegated Parias. Parias variegata. Megæra variegata, *Gray, Zool. Misc.* 50.

Green (in spirits); head black varied; back with rather narrow black cross bands; sides with an interrupted series of indistinct yellow spots; beneath rather paler: tail yellow, black-banded, compressed.

*a.* In spirits. Philippine Islands.

### 4. Megæra.

Superciliary shield double; scales lanceolate, of head and body smooth, of crown unequal; forehead edged with shields; hinder

labial plates small; tail with a rather large, compressed, curved, terminal claw; pupil oblong, erect. Asia and Africa?

Megæra, *Wagler*, *Amph.* 174, 1830. Megæra, Sect. I., *Gray*, *Zool. Misc.* 49, 1840.

1. The GREEN MEGÆRA. Megæra trigonocephala, *Wagler*, *Syst.* 174. *Gray*, *Zool. Misc.* 49. Vipera trigonocephala, *Latr. Lacep.* iii. 332. *Daud. Rept. Scheuch. P. S. t.* 749, *f.* 11. *Lacep.* 20, ii. *t.* 5, *f.* 2. Cophias trigonocephalus, *Merrem*, *Tent.* Cophias nigromarginatus, *Kuhl*, *Beytr.* 90. Trigonocephalus nigromarginatus, *Schlegel*, 541, *t.* 19, *f.* 14, 15. La tete triangulaire, *Lacep.* 20, ii. 132, *t.* 5, *f.* 2. Trimesurus marmoratus, *Gray*, *MSS. B. M.*

Glaucous green, paler beneath; upper part of head with regular black markings; middle of the back marbled with black; lips chin and front of belly white: head-shields flat, smooth; lip wit two black streaks under the nose and eyes; end of tail blackish.

Var. 1. Crown of head green, with symmetrical black marks.

*a*. In spirits. Half grown. S. Africa? Presented by Sir James M'Gregor.

*b*, *c*. In spirits. Adult and young. S. Africa? From Mr. Warwick's collection.

*d*, *e*. In spirits. Half grown and young. Ceylon. Presented by R. Templeton, Esq.

Var. 2. Crown of head green, with black edge to the scales.

*f*, *g*. In spirits. Adult and half grown. Ceylon. Presented by R. Templeton, M.D., R.E.

2. The OLIVE MEGÆRA. Megæra olivacea, *Gray*, *Zool. Misc.* 49. Vipera olivacea, *E. W. Gray*, *MSS.* 1800, *in Brit. Mus.* fide *Shaw*. Col. olivaceus, *Shaw*, *Zool.* Parias olivacea, *Gray*, *MSS.* 1830.

Yellow-olive, with a brown horizontal streak on each side of the back of the head; lips and beneath yellow; superciliary shields 2, large, square.

*a*, *b*. Adult. In spirits, rather discoloured. In the old collection named by Dr. Gray and Dr. Shaw.

### 5. ATROPOS.

Vertebral scales keeled, lateral ones smooth; superciliary scale small, in a prominent arched series: hinder labial shields small; head-scales convex or keeled. Asia.

Atropos, *Wagler*, *Syst. Amph.* 175, 1830. *Gray*, *Zool. Misc.* 49, 1840. Craspedocephalus sp., *Fitz. N. S. Rept.* 62, 1826.

1. The Atropos. Atropos acontia, *Gray, Zool. Misc.* 49. Atropos puniceus, *Wagler, Amph.* 175. Trigonocephalus puniceus, *Reinw. Isis*, 1827, 561. *Schlegel, Phys. Serp.* 545, *t.* 19, *f.* 10, 11. *Abbild.* 118, *t.* 38, animal and skull. Coluber açontia, *Gmelin, S. N.* 1093. Echidna acontia, *Merrem, Tent.* 151. *Seba*, ii. 64, *f.* 1.

Red-brown, minutely black dotted; paler beneath; tail generally darker; temple with a dark-edged, narrow white streak from back of eyes.

*a*. In spirits. Java. From Mus. Leyden.
*b*. In spirits. Young. Borneo. From Mr. Lowe's collection.

b. *End of tail with four rows of scales beneath.* America.
Lachesina.

6. Lachesis.

Head ovate, crown scaly: scales keeled; subcaudal plates two rowed, and with four rows of scales under the tip, ending in a spine.

Lachesis, *Daud. Wagler, Syst. Amph.* 175. *Gray, Zool. Misc.* 50. Bothrops sp., *Wagler, Serp. Braz.* Craspedocephalus, *Gray, Ann. Phil.* 1825, 205.

1. The Curucucu. Lachesis mutus, *Daud. Rept.* v. 351. *Gray, Zool. Misc.* 50. L. rhombeta, *Fitz. N. Class.* 63. *Neuw. Abbild.* i. *t.* 5. Bothrops Curucucu, *Wagler, Serp. Braz. t.* 23 (bad). Crotalus mutus, *Linn. S. N.* 273. *Seba, Thes.* ii. *t.* 76, *f.* 1, *t.* 91, 92. *Schlegel, P. S.* 570, *t.* 20, *f.* 19, 20. Boa muta (Le muet), *Lacep.* 2 *a*, ii. 389. B. crotalina, *Shaw, Z.* iii. 352. Cophias crotalina, *Merrem, Tent.* 154. Scytale catenatus, *Laur.* iii. 162. S. Ammodytes, *Latr.* iii. 162. *Seba*, ii. *t.* 76, *f.* 1. Coluber alecto, *Shaw, Zool.* iii. 400. Trigonocephalus rhombifer, *Cuv. R. A.* ii. 90. Crasp. Crotalinus, *Gray, Ann. Phil.* 1825, 205.

Pale brown; back with oblique black cross-band.

*a*. Adult. In spirits. S. America. Demerara? Presented by Colonel Edward Sabine, R.E.
*b—d*. Adult. In spirits. Mexico. From Mr. Hugo Finch's collection.
*e*. Adult. Stuffed. Brazils. Presented by Mrs. Parker.

2. The Peruvian Curucucu. Lachesis pictus, *Tschudi, Rept. Consp.* 166.

Gray-brown, with violet-black, roundish, irregular spots, confluent on the hinder part of the body; sides with small white spots;

beneath whitish; shields 172+74. Length 23 inches. Inhab. Peru.

Mus. Berlin.

II. *Head more or less shielded.*

a. *Subcaudal plates two-rowed; tail ending in a spine; cheeks not scaly; head-shield with some small additional plates in front.* Asia. Trigonocephalina.

7. TRIGONOCEPHALUS.

Crown with large subnormal shield; dorsal scales keeled.

Trigonocephalus, *Boie*, 1827, 561. *Fitz.* 1826. *Wagler, Amph.* 173, 1830. Trigalus, *Rafin. A. N.* 77. ANAT., *Schlegel, Nova Act. Leopol. N. C.* xiv. *t.* 16, *f.* 4, 59, *and Phys. Serp.* 548.

* *End of nose shielded in front.*

† *Head moderate.* Halys.

1. The HALYS. Trigonocephalus Halys, *Boie, Isis*, 1827, 568. *Wagler, Amph.* 174. *Schlegel, P. S.* ii. 552, *t.* 20, *f.* 4, 5. *Gray, Zool. Misc.* 50. *Licht. Eichw. Faun. Casp.* 102, *t.* 19, *f.* 1, 2. Coluber Halys, *Pallas, Russ.* iii. *App.* 14. *Eversm. Reise.* 146. *Licht. Cat.* 106. Col. Aspis? *E. W. Gray, MSS. Brit. Mus.* 1800, fide *Shaw.* Echidna Aspis, *var.* Pallasii, *Merrem, Tent.* 151.

*a*, *b*. In spirits; rather discoloured. Tartary?

2. The WHITE-LIPPED HALYS. Trigonocephalus affinis.

Olive, marbled with brown, with a series of brown spots on the lower part of the sides; head moderate, triangular; scales all elongate, keeled; temporal streak broad, dark; lips white.

*a*. In spirits; not good state. ——— ? Presented by Capt. Sir Edward Belcher.

3. BLOMHOFF'S HALYS. Trigonocephalus Blomhoffii, *Boie, Isis*, 1826, 214. *Wagler, Amph.* 174. *Schlegel, Phys. Serp.* ii. 552, *t.* 20, *f.* 8, 9. *Faun. Japon. t.* 6.

Brown, darker varied and spotted; temple with a broad dark streak from the back of the eye.

*a*. In spirits. Japan. From the Leyden Museum.

†† *Head large, triangular, cordate.* Trigonocephalus.

4. The Oular Donda. Trigonocephalus rhodostoma, *Reinw. Isis*, 1827, 561. *Wagler, Amph.* 174. *Schlegel, P. S.* ii. 547, *t.* 20, *f.* 1—3. *Abbild.* 19, *t.* 19, animal and skull. *Nova Act. N. C.* xiv. *t.* 16, *f.* 4—9, skull. *Seba*, ii. *t.* 68, *f.* 6, young (bad). Coluber, *No.* 21, *Russell, Ind. Serp.* ii. *t.* 21 (good). Vipera prætextata, *Gravenh.* Trigonocephalus prætextatus, *Hemprich. Fitz. N. Class.* 62.

Red-brown, with rhombic spots; sides brown, spotted; beneath white: head large, triangular; crown flat, with a dark-edged whitish streak on each side.

*a.* In spirits. Java. From the Leyden Museum.

** *End of nose with small scales in front.* Hypnale.

5. The Carawilla. Trigonocephalus Hypnale, *Wagler, Syst.* 174. *Schlegel, P. S.* ii. 550, *t.* 20, *f.* 6, 7. Cophias Hypnale, *Merrem, Tent.* 155. Coluber Nepa, *Laur. Syn.* 97. *Seba, Thes.* i. *t.* 19, *f.* 7; ii. *t.* 55, *f.* 1 *and* 4. *Scheuch. P. S. t.* 749, *f.* 11. Carawilla, *Davy, Ceylon*, 85, *t.* 2, *f.* 1. Cop., *Russell. Ind. Serp.* ii. *t.* 22 (var. muzzle blunt). Trimesurus? Ceylonensis, *Gray, Zool. Misc.* 48.

Scales keeled; lips brown, white spotted: brown, sides darker and varied; tail brown, cross-banded: head brown, marbled with a broad white streak on each side, extending down the back of the neck, which is streaked with brown; nose more or less produced, (" upper surface covered with small scale-like shields." *Schlegel.*)

*a.* In spirits. Ceylon. Presented by R. Templeton, Esq.

6. The Zara. Trigonocephalus Zara.

Brown; slightly brown varied, minutely punctated below; side of the neck dark brown, white varied: head with a narrow white streak on the upper part of the temple, and a broader white streak on the lower side of the neck; lips brown, with one or two small white spots behind.

*a.* In spirits. Singapore. From Mr. Argent's collection.

b. *Subcaudal plates one-rowed; tail ending in a spine; head shielded.* America. Cenchrina.

8. Cenchris.

Head shielded; tail ending in a spine; subcaudal plate entire, one-rowed.

Cenchris, *Daud. Rept.* viii. 388. *Gray, Ann. Phil.* 1825. *Wagler, Amph.* 175, 1830. *Boie, Isis*, 1827, 562, not *Linn.* Angkistrodon, *Beauv. Trans. Amer. Phil. Soc.* iv. 370. Tisiphone, *Fitz. N. Class.* 63, 1826. Peleas sp., *Merrem, Tent.* 149. Trigonocephalus, *Holbrook, N. A. Erp.* iii. 33, 1840. Toxicophis, *Troost, Ann. Lyc. N. H. New York*, iii. 176.

Holbrook described *C. contortrix* and *C. atrofuscus* as having smooth scales on the back of the head, and *C. piscivorus* as having keeled ones.

1. The Copper-head. Cenchris contortrix, *Gray, Ann. Phil. Zool. Misc.* 50. Cen. Mokeson, *Daud. t.* 70, *f.* 3, 4; *t.* 60, *f.* 25. *Wagler, Amph.* 175. *Harlan, Med. Phys. Res.* 128. C. marmorata, *Boie, MSS. Isis*, 1827, 562. Boa contortrix, *Linn. S. N.* 373. Coluber contortrix, *Linn. S. N. ed.* 10, 216. Heterodon contortrix, *Cuv. R. A.* Trigonocephalus contortrix, *Holbrook, N. Amer. Erp. t.* 14. C. Cacodæmon, *Shaw, Zool.* iii. 377. Scytalus cupreus, *Rafinesque, Amer. Jour. Art. & Sci.* i. 85. *Harlan, Med. and Phys. Res.* 130. Trigonocephalus Cenchris, *Schlegel*, 553, *t.* 20, *f.* 10, 11. Tisiphone cuprea, *Fitz. Syst.* 63. Black and Brown Viper, *Catesby, Carol. t.* 44, *f.* 5. Pelias niger, *Merrem, Tent.* 149. Scytale nigra, *Daud. Rept.* v. 342. Angkistrodon Mokeson, *Palis. de Beauv. Trans. Amer. Phil. Soc.* iv. 370, 380. Bastard Rattle-snake, *Harlan.* Copper-head, *Americans.* Trigon. Cacodæmon, *Boie, Isis*, 561.

Hazel-brown, with dark brown cross-bands, narrowest on the vertebral line, broader and forked on the flanks; beneath grayish, minutely punctated.

*a.* In spirits. Young. N. America, Texas? From Mr. Drummond's collection.

2. The Black-brown Mocassin. Cenchris atrofuscus. Toxicophis atrofuscus, *Troost, Ann. Lyc. N. H. New York*, iii. 181. Trigonocephalus atrofuscus, *Holbrook, N. Amer. Erp.* iii. 43, *t.* 9.

Dusky, with a series of large, lozenge-shaped, dark-centred, pale spots on the vertebral line; scales of the hinder part of the head small, hexagonal and smooth.

Inhab. N. America, Tennessee. *Troost.*

Perhaps a variety of the former.

3. The Water Viper. Cenchris piscivorus, *Gray, Zool. Misc.* 51. Water Viper, *Catesby, Carol.* ii. 43, *t.* 43. Crotalus piscivorus, *Lacep. Herp.* ii. 424. Scytalus piscivorus, *Latr. Rept.* iii. 163. *Harlan, Med. and Phys. Res.* 129. Scytale piscivorus, *Daud. Rept.* v. 343. Coluber aquaticus, *Shaw, Zool.* iii. 425, *t.* 3, *from Catesby.* Natrix piscivorus, *Merrem, Tent.* 131. Trigonocephalus

tisiphone, *Cuvier, R. A.* ii. 89, *from Catesby, t.* 43. *Holbrook, N. Amer. Erp.* iii. 33, *t.* 7 (not Col. tisiphone, *Shaw*). Toxicophis leucostomus, *Troost, Ann. Lyc. N. H. New York*, iii. 176. Water Mocassin or Cotton-mouth or Bastard Rattle-snake, *North-Americans.*

Greenish brown, black cross-banded.

*a.* In spirits. Adult, partly bleached. North America. From Sir Hans Sloane's collection.

*b.* In spirits. Half grown. N. America. Presented by R. Harlan, M. D.

*c.* In spirits. Half grown. N. America. Presented by Dr. Schaum. ? C. atrofuscus, *Holbrook.*

c. *Subcaudal shields one-rowed; tail ending in a rattle; head more or less shielded.* Crotalina.

9. CROTALOPHORUS.

Head with nine large shields extending to behind the eyes; labial shields moderate; temple covered with rather large keeled scales.

Caudisona, *Fitzinger, N. Class.* 63, 1826. *Wagler, Amph.* 176, 1830. Crotalophorus, *Linn. S. N. ed.* 7. *Gronov. Ichth. Gray, Annal. Phil.* 1825, 205. *Holbrook, N. A. Erp.* 1842. Crotalus sp., *Linn. Say.*

1. The SMALL RATTLE-SNAKE. Crotalophorus miliarius, *Gray, Ann. Phil.* 1825, 205. *Holbrook, N. Amer. Erp.* iii. 25, *t.* 4 (good). Caudosona miliaria, *Fitz. N. Class.* 63. *Wagler, Amph.* 176. Caudisona miliaris, *Gray, Zool. Misc.* 51. Crotalus miliarius, *Linn. S. N.* i. 372. *Schlegel, P. S.* 569, *t.* 20, *f.* 17, 18. *Seba, Thes.* ii. *t.* 95, *f.* 3. Small Rattle-snake, *Catesby, Carol. t.* 42. *Merrem, Ann. Wetter.* i. 15, *t.* 3. *Lacep. Q. O.* 4, *t.* 18, *f.* 2.

Olive or brown; crown and nape with an irregular dark brown band on each side; cheek dark, with a narrow white streak from the back of the eye; back with a central series of brown spots; sides with two alternating series of brown spots; belly black marbled.

*a, b.* In spirits. Young. N. America. Presented by Dr. Richard Harlan.

Dorsal spot narrow, reddish; dorsal streak distinct.

*c.* In spirits. Young, like *a, b.* N. America. Presented by Jacob Green, M.D.

*d.* In spirits. Young, like *a, b*; bleached. N. America, Canada. Old collection.

*e.* In spirits. Very young, like *a*, *b*. N. America. Presented by the Earl of Orkney.

*f.* In spirits. Young, like *a*, *b*. N. America. Presented by the Trustees of the Roy. Col. of Surgeons.

Var. ? Spot larger; vertebral series broad; transverse streak on back of neck not united to the foot-band; no appearance of reddish dorsal streak. Perhaps a species. C. tergeminus, *var.* ?

*a.* In spirits. N. America, Canada. Presented by J. Cruickshank, Esq.

2. Say's False Rattle-snake. Crotalophorus tergeminus, *Holbrook, N. Amer. Erp.* iii. 29, *t.* 5. Crotalus tergeminus, *Say, Long's Exped. Rock. Mount.* i. 499. *Harlan, Med. and Phys. Res.* 135. C. miliarius, var. *Schlegel, Phys. Serp.* 569.

Olive or cinereous, with three rows of dark brown spots; the vertebral series broad, oblong, transverse, with a broad streak ending in a transverse band behind, on each side of the back of the neck; beneath dusky, varied; cheek streak broad, distinct.

Inhab. N. America, Rocky Mountains, *Say*. Mus. Dr. Holbrook.

Perhaps a variety of the former, or the same as the variety specimen *a*, but the bands on the nape are united behind to the first spot.

3. Kirtland's Rattle-snake. Crotalophorus Kirtlandi, *Holbrook, N. Amer. Erp.* iii. 31, t. 6.

Black, varied with dusky brown, marked with three series of large dark spots, separated by a series of light brown rings on the back and vertical lines on the flanks, which are hardly visible in old animals.

Inhab. N. America, Ohio and Michigan, *Kirtland*. Cab. Dr. Holbrook.

## 10. Uropsophus.

Head between and behind the eyes covered with keeled scales; nose in front of the eyes, with three pairs of subsymmetrical shields; superciliary shield large; temples covered with rather large flat scales; labial shields moderate, flat,—the first, fourth, and the hinder ones largest; three series of flat loreal shields under the eyes; shields of two lower series of a moderate size; the upper ones small, sometimes wanting.

Crotalus sp., *Linn. S. N.* Crotalus, § 2, *Wagler, Syst. Amph.* 176, 1830. *Gray, Zool. Misc.* Uropsophus, *Wagler, Syst. Amph.* 176, 1830. *Gray, Zool. Misc.* 1842. ANAT., *Tyson, Phil. Trans.* 4144. *Duvernoy, Ann. Sci. Nat.* xxvi. *t.* 10, *f.* 1—5.

1. The RATTLE-SNAKE. Uropsophus durissus. Crotalus durissus, *Kalm. Act. Holm. p.* 1752, 310, 1753, 52, 185. *Linn. S. N.* i. 372. *Daud. Rept.* v. *t.* 68, *f.* 1, 2. *Schlegel, Phys. Serp.* 565, *t.* 20, *f.* 15, 16. *Holbrook, N. Amer. Erp.* iii. 9, *t.* 1. C. atricaudatus, *Latr. Rept.* iii. 209. *Gray, Zool. Misc.* 51. C. horridus, *Guerin, Icon. t.* 23, *f.* 2. C. confluentus, *Say.* C. rhombifer, *Latr. Rept.* iii. 197. C. triseriatus, *Wiegm. in Mus. Berl.* Uropsophus triseriatus, *Wagler, Syst. Amph.* 176. *Gray, Zool. Misc.* 51. Rattlesnake, *Catesby, Carol.* ii. *t.* 41. Crotalus Catesbæi, *Hemp. Fitz. N. Class.* 63.

Pale brown; temple with a dark streak from the back of the eye; occiput and back of the neck with a brown spot on each side; back with irregular brown cross bands; sides with a series of roundish dark spots.

*a.* In spirits. Young. N. America, Texas. From Mr. Drummond's collection.
*b.* In spirits. Young. N. America.
*c.* In spirits. Adult. N. America.
*d.* In spirits. Half grown. N. America, New Orleans.
*e.* In spirits. Adult; discoloured. N. America. Presented by the Royal College of Surgeons.

## 11. CROTALUS.

Head between and behind the eyes covered with convex keeled scales; nose in front of the eyes, with one (or rarely three) pair of shields: superciliary shields large; temples, cheeks and lores covered with small, uniform, convex scales; upper labial shields very small, the first two and fourth on each side largest; lower labial shields larger,—the first, second, fourth and fifth largest, rest nearly uniform; shields under the eyes small, like those on the temple, and in five or six series.

Crotalus, *Gray, Ann. Phil.* 1825, 205. Crotalus sp., *Linn. S. N. ed.* 10, 214. Crotalus, Sect. I., *Wagler, Syst. Amph.* 76. *Gray, Zool. Misc.* 51. Urocrotalon and Crotalus, *Fitz. Syst. Oph.* 1846. Caudisona sp., *Linn. S. N. ed.* 1. *Laur. Rept.* 92.

The best character between the two genera appears to be the size of the labial shield, and the size and number of the scales on

the side of the face and temples. Wagler and Schlegel consider the number of shields on the nose to afford a good character; but the specimens in the Museum are very different in this respect: the two young ones have a pair of shields occupying the front half of the space between the superciliary shields.

1. The CASCAVELLA. Crotalus horridus, *Linn. Syst. Nat.* i. 372. *Daud. Rept.* v. 311, *t.* 69, *f.* 1. *Gray, Zool. Misc.* 51. *Schlegel, Phys. Serp.* 561, *t.* 20, *f.* 12, 13, 14. *Neuw. Abbild.* xi. *t.* 3. C. cascavella, *Spix, Serp. Braz.* 61, *t.* 24. C. adamanteus, *Beauvais, Trans. Amer. Phil. Soc.* iv. 368. *Holbrook, N. A. Erp.* iii. 17, *t.* 2. Buibuira, *Lacep. Quad. Ovip.* ii. 390, *t.* 18, *f.* 1. Boicininga, *Marcgrave, Piso*, 274. Crotalus Simus, *Latr. Rept.* iii. 202. *Seba*, ii. *t.* 95, *f.* 1. Caudisona terrifica, *Laur. Rept.* 93, 96. *Seba*, ii. *t.* 95, *f.* 1. Col. Javana, *Laur. Rept. Seba*, i. *t.* 70, *f.* 12 (no rattle). Vipera Javanus, *Daud.* C. rhombifer, *Latr. Rept.* iii. 197. *Daud. Rept.* v. 323, *t.* 40, *f.* 22. *Merrem, Tent.* 157. C. durissus, *Shaw, Zool.* iii. 233, *f.* 89, (not description). C. Oregonus, *Holbrook, N. Amer. Erp.* iii. 21, *t.* 3, var.?

Brown, with a broad brown streak on each side of the back of the neck, and with brown spots and oblique whole cross-bars for leaving lozenge-shaped spots.

*a*. In spirits. Adult; bleached. N. America. From Sir Hans Sloane's collection.

Nose with two pairs of symmetrical shields; the front pair close together; the hinder pair ovate, concave, separated by a small pair of scales.

Crotalus durissus, *Shaw, MSS. B. M.*

*b*. In spirits. Half grown. N. America. Venezuela. From Mr. Dyson's collection.

Nose with two pairs of symmetrical shields; the front pair triangular, close together; the hinder pair ovate, concave, with a central keel, and nearly close together.

*c*. In spirits. Young. N. America, Venezuela. From Mr. Dyson's collection.

Nose with three pairs of symmetrical shields, all close together; the front pair triangular; the second square; the hinder elongate, occupying the front half of the space between the superciliary shields.

*d*. In spirits. Young. W. Indies? Presented by Miss Saul.

Nose-shields like specimen *c*.

*e*. In spirits. Young. Columbia. From Mr. Brandt's collection.

Nose-shields small, unequal.

This family consists of 11 genera and 37 species: 31 of the species are contained in the Museum collection. Schlegel, in his last work on the species of snakes, described 17 species. The genera 1, *Craspedocephalus;* 6, *Lachesis;* 7, *Trigonocephalus;* 8, *Cenchris;* 9, *Crotalophorus;* 10, *Uropsophus*, and 11, *Crotalus*, are confined to America: 2, *Trimesurus;* 3, *Parias*, and 5, *Atropos*, to Asia and its Islands: 4, *Megæra*, is found in Asia and South Africa.

## Fam. II. Viperidæ.

Face without any suborbital pit on the side: upper jaw toothless, with fangs in front: rostral shields broad, band-like. Scales keeled (except in Acanthophis). Tail short, tapering.

Viperine, *Oppell, Serp.* 1811. Viperidæ, *Boie, Isis*, xx. 510, 1827. *Gray, Zool. Misc.* 1842. Viperidæ and Crotalidæ part, *Gray, Ann. Phil.* 1825, 209. Les Serpents Vénémeux proprement dit, part, *Schlegel, Phys. Serp.* 820. Aspidophis part and Chersophis, *Fitz. Consp. Syst. Ophid.* 1846. Holochalina part, *Müller.*

*Synopsis of the Genera.*

I. *Head depressed, rounded on the sides, covered with acutely keeled scales.*

a. *Nostrils large, subsuperior, anterior, in the centre of a ring-like shield, edged with a large scale above.* Clothonina.

1. Daboia. Eyes convex, pupil round: head elongate; scales regularly keeled; nasal shield smooth in front. India.

2. Clotho. Eyes convex; pupil oblong, erect: head short, broad, scales keeled, ending in a spine; nasal shield interrupted by a small shield in front. Africa.

b. *Nostrils small, subanterior, sublateral.* Cerastina.

3. Cerastes. Subcaudal plates two-rowed; nostrils lunate on the hinder part of a small nasal plate; eyelid of males horned.

4. Echis. Subcaudal plates one-rowed; nostrils minute in suture of two small scales; the anterior frontal shields minute, smooth; pupil round.

II. *Head more or less shielded; nostrils anterior, lateral.*

a. *Head flat-topped, high on the sides, shielded in front; nostrils in the middle of a shield; tail end simple; subcaudal plates two-rowed.* Viperina.

5. Vipera. Superciliary shield distinct; rest of the head covered with small smooth plates; nose more or less recurved.

6. Palias. Vertebral, occipital and superciliary plates distinct; front of head with small shields; nose blunt.

b. *Head ovate, rounded on the sides, crown entirely shielded: nostrils between two plates; tail end simple; subcaudal plates two-rowed.* Sepedonina.

7. SEPEDON. Scales keeled; loreal shields none; one anterior and three posterior ocular shields; subcaudal shields two-rowed.

c. *Head depressed, shielded, prominent over the eyes; nostrils between two shields; tail ending in a recurved spine; subcaudal plates one-rowed.* Acanthophina.

8. ACANTHOPHIS. Head-shield rather scale-like; loreal none.

I. *Head dilated, depressed, covered with acutely keeled scales, rounded on the sides.*

a. *Nostrils large, subsuperior, anterior, in the centre of a ring-like shield, edged with a large scale above.* Clothonina.

### 1. DABOIA.

Eyes convex, pupil round: head elongate; scales regularly keeled; nasal shield smooth in front; superciliary shield narrow, elongate, distinct. India.

Daboia, *Gray, Zool. Misc.* 69, 1842. Vipera, β., *Wagler, Syst.* 177.

1. The KATUKA. Daboia elegans, *Gray, Zool. Misc.* 69. Katuka retuka poda, *Russell, Ind. Serp.* i. 10, *t.* 7. Coluber Russellii, *Shaw, Zool.* iii. 418, *t.* 108. Vipera elegans, *Daud. Rept.* vi. 124, *t.* 73. *Schlegel, Phys. Serp.* 588, *t.* 21, *f.* 4, 5. Echidna elegans, *Merrem, Tent.* 152. Coluber trinoculus, *Schneid. in Bechst. Lacep.* iv. 248. Col. triseriatus, *Herm. Obs. Z.* i. 278. Tic polonga, *Davy, Ceylon*, 85. Daboie, *Lacep. Quad. Ovip.* ii. 255, *t.* 13, *f.* 2. Vipera Daboya, *Daud. Rept.* vi. 119. *Wagler, Amph.* 177. Echidna Daboia, *Merrem, Tent.* 152. Coluber Brasiliensis, *Lacep. Quad. Ovip.* ii. 119, *t.* 4, *f.* 2. Vipera brasiliana, *Latr. Rept.* iv. 7. *Daud. Rept.* vi. 86. ? V. arenicola, *A. Smith, Cat. Rept.*

Brown, with three rows of white-edged, oblong, brown spots; two brown spots on each side of the occiput, separated by a narrow, oblique, yellow, temporal streak.

*a*. In spirits. Adult. India. Presented by Dr. Patrick Russell. Col. Russellii, *E. W. Gray, MSS. B. M. Shaw.*
*b*, *c*. In spirits. Adult. India.
*d*. In spirits. Adult. Presented by General Hardwicke.
*e*. In spirits. Half grown. India.
*f*, *g*. In spirits. Half grown and young. Ceylon. Presented by R. Templeton, Esq., R.E.
*h*. In spirits. Young. Ceylon. Presented by Capt. Gascoigne.

Yellow-brown; back with three rows of roundish spots, pale spotted on the edge, the front and hinder spots elongate, sometimes confluent: head black-brown, with a line over each eye, a broad cross-like mark on the crown and a spot before each eye; chin and beneath white, brown spotted.

Daboia pulchella, *Gray, Zool. Misc.* 69.
*i*. Stuffed. Adult. India.

2. Russell's Katuka. Daboia Russellii, *Gray, Zool. Misc.* Coluber, No. 32, *Russell, Ind. Serp.* ii. 37, *t.* 32. Vipera elegans, var.? *Schlegel, Phys. Serp.* 588.

Pale gray-brown, with three series of darker oblong spots; beneath white.

Inhab. Bombay.

Dr. Russell engraved perhaps a bad drawing of a very old specimen of the former: he considers it *Coluber Lachesis* of Dr. Shaw.

3. The Xanthian Katuka. Daboia Xanthina.

Pale brown; beneath paler, closely punctulated; back irregularly brown spotted, central series largest; occiput with an oblong dark spot on each side; temple with an oblique brown streak, becoming broader behind from the back angle of the eyes; lip with a small brown spot under the eyes.

*a*. In spirits. Adult. Xanthus. Presented by Sir Charles Fellowes.
*b*. In spirits. Young. Asia Minor. Presented by A. C. Christy, Esq.

### 2. Clotho.

Eyes convex; pupil oblong, erect: head short, broad: keel of scales ending in a spine: superciliary shields small, scale-like: nasal shield arched over the nostril and interrupted by a small shield in front. Africa.

Clotho, *Gray, Zool. Misc.* 69, 1842. Clotho, part, *Wagler.* Vipera sp., *Schlegel, Phys. Serp.* 588. Cerastes sp., *Wagler, Syst. Amph.* 178, 1830. Echidna sp., *Merrem, Tent.* 150, 1820. *Wagler, Syst.* 177, 1830, not *Geoff.* Vipera and Cobra sp., *Lacep. Rept.* 99, 100.

* *Scales over the nostril of the males produced into a long recurved spine.*

1. The River Jack. Clotho nasicornis, *Gray, Zool. Misc.* 69. Coluber nasicornis, *Shaw, Misc. t.* 94. *Gen. Zool.* iii. 397, *t.* 104. V. nasicornis, *Daud. Rept.* vii. 322. *Reinh. K. Dansk. Selsk.* x. 273, *t.* 3, *f.* 8, 9. Vipera cornuta (monstrosity?), *Schlegel, Phys. Serp.* 582, *note.* Cerastes (nasicornis), *Wagler, Syst. Amph.* 178. Echidna nasicornis, *Merrem, Tent.* 150. River Jack, *Colonists.*

Black, paler marbled; back with a series of lozenge-shaped dark spots, separated by pale triangles on each side: head pale; crown with a large triangular mark, wide behind, a broad streak on the lore and larger one on the temple, and a large triangular spot under the eyes.

*a.* In spirits. Adult, male. Nasal horns large. Guinea.
Col. nasicornis, *E. W. Gray's MSS. B. M.* fide *Shaw.*
*b.* In spirits. Adult, male. Nasal horns large. Guinea.
*c.* In spirits. Head and neck of half-grown male. Nasal horns moderate. Coast of Africa.
*d.* In spirits. Young, female? Nasal horns none. Coast of Africa.
*e.* In spirits. Very young, female? Nasal horns none. Ashante. From the Leyden Museum.
Vipera Schlegellii, *Gray, B. M.*

The *Das Adder* of South Africa is a local variety or allied species. A fine specimen is in the museum of Dr. A. Smith.

** *Scales over the nostril in both sexes simple, arched. Eyebrow scales simple.* Bitis. Echidna sp., *Wagler, Syst.*

2. The Puff Adder. Clotho arietans, *Gray, Zool. Misc.* 69. Echidna arietans, *Merrem, Beitr.* iii. 121. *Tent.* 152. *Wagler, Syst.* 177. Vipera inflata, *Burchell, Trav.* i. 469. *Smith, Edinb. Journ.* i. 284. V. brachyura, *Cuv. R. A.* ii. 90, *ed.* 2. *Wagler, Amph. t.* 11. V. arietans, *Schlegel,* 577, *t.* 21, *f.* 1—3. *Boie, Erp. Java, t.* 46. Cobra Clotho and Cobra Lachesis, *Laur. R.* 104 = *Seba,* ii. *t.* 93, *f.* 1, *t.* 94, *f.* 2. Col. hebraicus, *Lacep. Quad. Ovip.* ii. 106 = *Seba,* ii. *t.* 30, *f.* 1; iii. *t.* 54, *f.* 4. Vipera Clotho (part), *Daud. Rept.* vi. 171, from *Seba.* Col. dubius, *Gmelin, S. N.* i. 1086. Col. Bitis, *Bonnat, Oph.* 22. Col. intumescens, *Donnd. Zool. Beyt.* iii. 209. Vipera severa, *Daud. Rept.* vi. 116. Pof Adder or Puff-otter, *Paterson, Trav.* 162. *Cape Colonists.*

Brown, with angular cross-band, edged behind by a pale line; nose with a red cross-band across the eyes; chin and beneath paler.

*a—d.* Stuffed. Adult. Cape of Good Hope.

3. The West-African Puff Adder. Clotho lateristriga, *Gray, Zool. Misc.* 69.

Gray-brown, black spotted, with black-edged, white, angular bands across the back, and spots on the tail, with a broad, longitudinal pale streak on each side the neck, bent up behind, and forming the first band on the front of the back: head black-spotted, two black spots on the crown and a black streak from the back angle of each eye to the gape.

*a.* Stuffed. Adult. Gambia. Purchased of Mr. Randall.

4. The Berg Adder. Clotho Atropos, *Gray, Zool. Misc.* 69. Col. Atropos, *Linn. Mus. Adolph. Fred.* 1, 22, *t.* 13, *f.* 1. Cobra Atropos, *Laur. Rept.* 104. Vipera montana, *A. Smith, Edinb. Phil. Journ.* i. 284. V. Atropos, *Latr. Rept.* iii. 334. *Daud. Rept.* vi. 210. V. Echidna Atropos, *Merrem, Tent.* 152. *A. Smith, Illust. Zool. S. Africa, Rept. t.* 52, adult. Echidna Atropos, *Wagler, Amph.* 177. Berg Adder, *Cape Colonists*, var. ? Vipera Echidna Atropoides, *A. Smith, Illust. Zool. S. A. Rept. t.* 53 Clotho? Atropoides, *Gray, Zool. Misc.* 69.

Olive-gray; back with two series of dark square spots on each side of the vertebral line; sides darker marbled: the first, second and third lower labial scales high, elongate; the rest moderate, mostly square.

*a.* In spirits. Half grown. South Africa? From Sir H. Sloane's collection.
*b.* In spirits. Half grown. South Africa. Presented by the Earl of Derby.
*c.* In spirits. Young. S. Africa.
*d.* In spirits. Adult. S. Africa. From Mr. Brandt's collection.

5. The Plain Berg Adder. Clotho? inornata. Vipera inornata, *A. Smith, Edinb. Journ.* i. 7. Echidna inornata, *A. Smith, Illust. Zool. S. Africa, Rept. t.* 4.

Yellowish brown; beneath brownish yellow, sparingly sprinkled with brownish dots; tail olive, brown varied; head oblong, cordiform; eyebrows considerably elevated.

Inhab. S. Africa. Snow Mountains or Sneebergen, *J. Lieb, Esq.* In the collection of Dr. A. Smith.

6. The ALGERINE ADDER. Clotho? mauritanica. Echidna mauritanica, *Dum. & Bib. Exped. Sci. Alger. Rept. t.* 3, no desc.

Brown: back with large, oval, nearly contiguous cross-bands; sides with a sinuous pale streak: head pale; temporal streak simple, dark; superciliary shields 3-3, simple.

Inhab. Algiers. Mus. Paris.

**** Nasal plate simple: eyebrows of males? or both sexes with a group of small horn-like scales over the eyes.*

7. The HORNED ADDER. Clotho cornuta. Vipera cornuta, *Daud.* vi. 188. *Schlegel*, 582, *t.* 21, *f.* 8, 9. *A. Smith, Ill. Z. S. Afr. Rept.* 32. V. Lophophrys, *Cuvier, R. A.* ii. 92, *ed.* 2, 4. *Paterson, Trav. t.* 15. *A. Smith, Ill. Zool. S. A. Rept. t.* 33. V. armata, *A. Smith, Edinb. Journ.* i. 2. Gehorne Schlange, *Lichst. Reise.* i. 153. Cerastes cornuta, *Gray, Zool. Misc.* 96. Cerastes? caudalis, *Gray, Zool. Misc.* 96. Vipera (Cerastes) caudalis, *A. Smith, Illust. Zool. S. Africa, Rept. t.* 7. Vipera ocellata, *A. Smith, Mag. Nat. Hist.* (1838), ii. 92, not *Daud.*

Gray-brown, minutely and closely black-dotted; back with four series of irregular dark spots; sides dark marbled; scales rather elongate, keeled to the rather acute tip: the first, second and third lower labial shields high; the rest moderate, nearly square.

*a.* In spirits. Half grown. Cape of Good Hope. Presented by —— Ford, Esq., 72nd Reg. From the Chatham Museum.

*b, c.* In spirits. Adult and young. S. Africa, Cape of Good Hope. Presented by the Earl of Derby.

b. *Nostrils small, sublateral, anterior.* Cerastina.

3. CERASTES.

Subcaudal plates two-rowed: nostrils lunate, in the hinder part of a small nasal plate: superciliary shields very small, scale-like: eyebrows of males often horned: scales keeled, broad, ovate, rounded at the end, placed in oblique cross-series: keel not reaching the tip.

Cerastes, *Wagler, Syst. Amph.* 173, 1830. *Gray, Zool. Misc.* 96. Aspis sp., *Laur. Fitzinger.* Cobra, *Gray, Ann. Phil.* 1825, 205. Cobra sp., *Laur.*

1. The Cerastes. Cerastes Hasselquistii. Cerastes, *Belon, Obs.* ii. 54. *Bruce, Trav. t.* 14. *Lacep. Quad. Ovip.* ii. 72, *t.* 1, *f.* 2. Coluber Cerastes, *Hasselq. Act. Upsal.* 1750. *Linn. S. N.* i. 376. *Ellis, Phil. Trans.* lvi. *t.* 14. *Shaw, Zool.* iii. 385, *t.* 103. C. cornutus, *Hasselq. Reis.* 365. Vipera Cerastes, *Latr. Rept.* iii. 313. *Daud. Rept.* vi. 178, *t.* 74, *f.* 1. Echidna Cerastes, *Merrem, Tent.* 150. Cerastes, *Wagler, Syst. Amph.*

Brownish white, with pale brown, irregular, unequal spots; scales broad, ovate, rounded at the end, keeled, placed in oblique cross series; keel not reaching to the end of the scale, enlarged at the end; scales of the crown moderate, smaller than those of the back; four or five rows of scales between the eyes and the labial shields; lower labial shields large, the first to the eighth higher than long. Males with a horn-like scale over the eyes.

*a.* In spirits. Adult. Egypt. From Sir Hans Sloane's collection.
*b, c.* In spirits. Adult. *i.* Young. Egypt. Presented by James Burton, Esq.
*d, e.* In spirits. Adult. Egypt. Presented by Sir J. Gardiner Wilkinson.

Var. 1, or females? Eyebrows not horned.

Coluber Vipera, *Hasselq. Reis.* 363. *Linn. S. N.* i. 375. Aspis Cleopatræ, *Laur. Rept.* 105. Col. Ægyptiacus, *Lacep. Q. O.* ii. 65. Vipera Ægyptia, *Latr. Rept.* iii. 320. V. Ægyptiaca, *Daud. Rept.* vi. 212. *Merrem, Tent.* 152.

*f, g.* In spirits. Adult. Egypt. Presented by Sir J. Gardiner Wilkinson.
*h.* Adult. *k.* Young. In spirits. Presented by James Burton, Esq.

2. The Rough Cerastes. Cerastes Ritchii, *Gray, Zool. Misc.* 96

Uniform pale brown: scales of head largest: cheek with only three rows of scales between the eyes and the labial shields: lower labial shield moderate; the first long; the second and third scarcely higher than long; the rest small, rather longer than high. More rugose than *C. Hasselquistii.*

*a—c.* In spirits. Half grown (females?) without horns. Tripoli. Presented by J. Ritchie, Esq.

## 4. Echis.

Subcaudal plates one-rowed: nostrils minute, in suture of two small scales: the anterior frontal shields minute, smooth: pupil round: eyes surrounded by small scales: superciliary shield small, scale-like or single, elongate and distinct: scales elongate, keeled to the tip.

Echis, *Merrem, Tent.* 149, 1820. *Gray, Zool. Misc.* 96. *Wagler, Syst.* 177. Scytale, *Latr. Rept.* iii. 158. *Daud.* v. 339. *Cuvier, R. A.* ii. 79, not *Merrem.* Boa sp., *Shaw, Zool.*

### * *Superciliary shields small, like a scale.* Toxicoa.

1. The Toxicoa. Echis arenicola, *Boie, Isis*, 1827, 558. *Galerie, Zool. t.* 48. *Wagler, Amph.* 177. *Gray, Zool. Misc.* 96. Vipera pyramidarum, *Geoff. Rept. Egypt, t.* 7, *f.* 1. *Savigny, R. E. t.* 4, *f.* 1—4. Vipera Ægyptiaca, *Ruppell, Mus. Francf.* Echis pavo and Echis varia, *Reuss. Mus. Senk.* ii. 137, 160, *t.* 7, *f.* 2. ? Col. Libetinus, *Linn. Mus. Ad. Fr.* ii. 43. *S. N.* i. 165. *Forskal, Faun. Arab.* 13. Vipera Libetina, *Latr. Rept.* iii. 324? *Daud. Rept.* v. 137? Vipera Echis, var. 2, *Schlegel, Phys. Serp.* 583.

Superciliary scales small, like the other ocular ones: gray-brown, with angular white streaks, and a series of whitish vertebral spots: crown dark, varied with arrow-shaped white streaks.

*a—c.* In spirits. Adult. N. Africa, Egypt. Presented by Sir J. Gardiner Wilkinson.

### ** *Superciliary shields elongate, distinct.* Echis, *Merrem.*

2. The Horatta Pam. Echis carinata, *Merrem Tent.* 149. *Wagler, Amph.* 177. *Gray, Zool. Misc.* 96. Horatta Pam, *Russell, Ind. Serp.* ii. *t.* 2. Boa Horatta, *Shaw, Zool.* iii. 359. Pseudoboa carinata, *Schneid. Hist. Amph.* ii. 285. Scytale bizonata, *Daud. Rept.* v. 339, *t.* 70. Vipera Echis, var., *Schlegel, Ph. Rept.* 583, *t.* 21, *f.* 10, 11. ? Boa Krait, *Williams, Asiat. Research.* ii. 328. Pseudoboa Krait, *Schneid. Amph.* ii. 288. Scytale Krait, *Daud. Rept.* v. 326. Echis Krait, *Merrem, Tent.* 149. E. ziczac, *Gray, Ann. Phil.* 1825, 205.

Superciliary scales elongate, larger than the others: gray-brown, with angular white streaks: crown of head dark, with large dark-edged oblong spots.

*a*, *b*. In spirits. Pale coloured. India. Presented by Dr. Patrick Russell.

*c*, *d*. In spirits. Brighter coloured, with three series of white-edged dark spots; occiput with a central pale spot; belly brown, spotted on the sides. Presented by Walter Elliott, Esq.

*e*. In spirits. Adult. Madras. Presented by J. C. Jerdon, M.D.

II. *Head more or less shielded. Nostrils lateral, anterior.*

a. *Head flat-topped, high on the sides, shielded in front; crown scaly. Nostrils in the middle of a shield. Tail end simple: subcaudal plates two-rowed. Pupil oblong, erect.* Viperina.

5. VIPERA.

Superciliary shields distinct, rest of the head covered with small smooth plates: nose more or less recurved.

Vipera, *Gray, Zool. Misc. Bonap.* Vipera sp. *Latr. Wagler, Amph.* 177. Echidna sp., *Merrem, Tent.* 150. Pelias sp., *Boie.* Cobra, *Fitz.* Rhinechis, *Fitz.* Rhinaspis, *Bonap.*

* *Nose rather elevated and rounded in front.*

1. The Asp. Vipera aspis, *Latr. Rept.* iii. 304. *Schlegel, Phys. Serp.* 591, *t.* 21, *f.* 17, 18. *Gray, Zool. Misc.* 96. Aspic. *Lacep. Q. O.* ii. 53, *t.* 2, *f.* 1. *Razoum. Mont. Jur.* 284. Coluber aspis, *Linn. S. N.* i. 370. *Latr. Salam,* xxiii. Vipera Francisci Redi, *Laur. Rept.* 99. Col. Redi, *Gmelin, S. N.* i. 1091. *Shaw, Zool.* iii. 380. Vipera Redi, *Latr. Rept.* iii. 304. *Daud. Rept.* vi. 152. Coluber Berus, *Cuvier, R. A.* ii. 82, *ed.* 2; ii. 91. Col. Chersea, *Latr. Rept.* iii. 397. Vipera vulgaris, *Latr. Rept.* iii. 212. V. ocellata, *Latr. Rept.* iii. 2. *Daud. Rept.* vi. 240. ? V. maculata, *Latr. Rept.* iii. 102. *Merrem, Tent.* 153. ? Col. maculata, *Gmelin, S. N.* i. 1092. Lachesis Redi, *Hempr.* Vipera cholobia, *Petagna.* V. Heegeri, *Schinz, t.* var. V. prester, *Metaxa.* Pelias aspis, *Boie.*

Olive; beneath blackish or pale blackish varied: back with four series of dark spots; the two vertebral series close together and sometimes confluent, subalternate: occiput with two elongate transverse spots: temple with a broad linear streak.

*a*. In spirits. Dark olive, spots large. Europe, Alps. Presented by Professor Bonelli.

*b*. In spirits. Pale, spots smaller, beneath pale, black varied: male. Europe, Alps. Presented by Professor Bonelli.

** *Nose elongated, acute, with small flat shields.* Rhinaspis.

2. The Ammodyte. Vipera Ammodytes, *Latr. Rept.* iii. 306. *Daud. Rept.* vi. 193, *t.* 74, *f.* 2. *Cuv. R. A.* ii. 83. *Merrem, Tent.* 151. *Schlegel, Phys. Serp.* 602, *t.* 21, *f.* 19, 20. C. Ammodytes, *Linn. S. N.* i. 376. *Amœn. Acad.* i. 506, *t.* 17, *f.* 2. *Sturm, Faun. Deut. t. Host. Jacq. Collect.* iv. 350, *t.* 24, ♀, *t.* 25, ♂. V. Mosis Charas, *Laur. Rept.* 101? Vipera Illyrica, *Aldrovand. Laur.* 101. Col. Charasii, *Shaw, Zool.* iii. 579. Cobra Ammodytes, *Fitz.* Pelias Ammodytes, *Boie.* Rhinechis Ammodytes, *Fitz.* Lachesis Ammodytes, *Hempr.* Rhinaspis Ammodytes, *Bonap. Faun. Ital. t.* Sand-natter, *Wolf. Faun. Germ. t.*

Olive; beneath pale, closely dark punctulated: occiput with two broad diverging streaks on each side: temple with an oblique broad dark streak: back with a broad streak, with angular or wavy scales: sides more or less spotted.

*a*, *b*. In spirits. Young or half grown. Europe, Shores of Mediterranean. Presented by J. Miller, Esq., R.N.
*c*. In spirits. Half grown. Delos. Presented by Capt. John Ince, R.N.
*d*, *e*. In spirits. Adult. Europe. From Mr. Argent's collection.

## 6. Pelias.

Vertebral, occipital and superciliary plates distinct; front of head with small shields: nose blunt.

Pelias, *Merrem, Tent.* 148, 1820. *Wagler, Amph.* 177. *Gray, Zool. Misc.* 96, Vipera sp., *Schlegel.* Coluber, *Laur. Rept.* 94.

1. The Adder or Viper. Pelias Berus, *Merrem, Tent.* 148. *Gray, Zool. Misc.* 96. *Bonap. F. Ital. t.* Coluber Berus, *Linn. S. N.* i. 377. *Laur. Rept.* 192, *t.* 2, *f.* 1. C. Chersea, *Linn. S. N.* i. 377. *Schwed. Abb.* xi. 255, *t.* 6, *f.* 1, 2. *Sturm, Deutsch. Faun. t.* C. prester, *Linn. S. N.* i. 377. *Sturm, Deutsch. Faun. t.* Vipera vulgaris, *Latr. Rept.* iii. 212, *t.* V. Berus, *Daud. Rept.* vi. 89, *t.* 72, *f.* 1. V. Chersea, *Daud. Rept.* vi. 144. Pelias Chersea, *Wagler, Amph.* 178. *Bonap. F. Ital. t.* V. prester, *Latr. Rept.* iii. 309. *Daud. Rept.* vi. 161. Coluber Scytha, *Pallas, Reis.* ii. 717. *Gmelin, S. N.* i. 1091. Col. melania, *Pallas, Reis.* i. 460. V. melania, *Latr. Rept.* iii. 311. *Daud. Rept.* vi. 191. V. Scytha, *Latr. Rept.* iii. 312. *Daud. Rept.* vi. 150. Vipera Torva, *Lenz. Schlangenck.* 133. Col. Vipera anglorum, *Laur. Rept.* 99, 188, *t.* 4, *f.* 1. C.

niger, *Lacep. Quad. Ovip.* ii. 56. Col. Hannasch aesuaed? *Forsk. Anim.* 15. Col. Hannash, *Gmelin, S. N.* i. 1116. Pelias niger, *Merrem, Tent.* 149. Viper, *Penn. B. Z.* iii. 17. Coluber zerboa, *Shaw?* Col. boiquatera, *Shaw.* Vipera alpina, *Vest.* V. marasso, *Cetta.* V. lymnea, *Bendiscioli.* Polygerrus paradoxus, *Hemp.*, very young.

Olive; beneath dark: crown black, pale varied, with a diverging streak on occiput: back with a sinuous or angular-edged dark streak; sides pale, black spotted: lips white: temple streak, broad, linear, extending down the side of the neck.

*a, b.* In spirits. Adult. Island of Arran. Presented by W. E. Leach, M.D.

*c* ♀, *d* ♀. Adult. *e.* Half grown. *f.* Young. In spirits. Devonshire. Presented by W. E. Leach, M.D.

*g—i.* Young. In spirits. Somerset. Presented by W. E. Leach, M.D.

*k.* Young. In spirits. Dorsetshire. Presented by Rev. T. Racket.

*l.* Adult. In spirits. Kent. Presented by Sir J. W. Lubbock, Bart.

*m, n.* Adult. In spirits. Europe. Presented by Mrs. W. P. Mauger.

*o.* Adult. In spirits. Europe. Presented by the Royal College of Surgeons.

*p, q.* Adult. Stuffed. Europe.

*r.* Adult. In spirits. Europe.

*s.* Half grown. In spirits; discoloured. ———— Pelias dorsalis, *Gray, Zool. Misc.*

b. *Head ovate, rounded on the sides, crown entirely shielded. Nostrils lateral, between two plates. Pupil round. Tail end simple: subcaudal plates two-rowed.* Sepedonina.

### 7. Sepedon.

Scales keeled, in oblique cross series, of the sides larger and broader, of the back rather elongate: one anterior and three posterior ocular shields: subcaudal shields two-rowed. Allied to *Naja*, but has no solid teeth behind the fangs.

Sepedon, *Cuvier, R. A.* ii. 86. *Merrem, Tent.* 146, 1820. *Wagler, Syst.* 173. *Boie, Isis*, 1827, 556. Anat., *Duvernoy, Ann. Sci. Nat.* xxvi. *t.* 9, *f.* 3, head. *Schlegel, Phys. Serp.* 482.

1. The RINGHALSSLANG. Sepedon Hæmachates, *Merrem, Tent.* 146. *Seba*, ii. *t.* 58, *f.* 1, 3. Hæmachate, *Lacep. Quad. Ovip.* ii. 115, *t.* 3, *f.* 2. *Cuvier, R. A.* ii. 86. Vipera Hæmachates, *Latr. Rept.* iv. 30. *Daud. Rept.* vi. 207. Naja capensis, *A. Smith, Edin. Phil. Journ.* i. 2. Naja Hæmachates, *Schlegel, Phys. Serp.* 481, *t.* 17, *f.* 10, 11. *A. Smith, Ill. Zool. S. Afr. Rept. t.* 54. Ringhalsslang or Spuwslang, *Colonists.*

Dark brown, yellow spotted and marbled; beneath pale, with broad dark cross bands.

*a.* In spirits. Young. Cape of Good Hope. Presented by the Lords of the Admiralty.
*b.* In spirits. Adult. S. Africa, Namaqua.

## 8. CAUSUS.

Scales lanceolate; of the back slightly keeled; of the sides smooth, in oblique cross series: ocular scales nearly surrounding the eyes: pupil round: body rather flattened; back keeled: tail very short, strong; subcaudal plates two-rowed; tip conical, sheathed.

Causus, *Wagler, Syst.* 172, 1830. Naja sp., *Boie, Isis*, 1827. *Schlegel, P. S.* 483. Sepedon sp., *Licht.*

1. The CAUSUS. Causus rhombeatus, *Wagler, Syst.* 172. Sepedon rhombeata, *Licht. Cat. Doub.* 106, 1823. Naja rhombeata, *Schlegel, Phys. Serp.* 483, *t.* 17, *f.* 12, 13. Naja. V-nigrum, *Boie, Isis*, 1827, 556. Coluber (Vipera) V-nigrum, *Cuvier, R. A.* ii. 94. *Scheuchz. t.* 771, *f.* 1.

Olive: back with a series of rhombic, pale-edged, brown spots; sides with oblique blackish streaks: lips brown, spotted: temporal streak broad, dark: crown with a broad triangular spot.

*a.* In spirits. Young. South Africa. Presented by John Lee, LL.D.
*b, c.* In spirits. Adult. S. Africa. From the Leyden Museum.
*d.* In spirits. Young. W. Africa.
*e.* In spirits. Adult. W. Africa, Gold coast. From Mr. Rich's collection.

c. *Head depressed, shielded, prominent over the eyes. Nostrils between two shields. Pupil erect, elliptical. Tail ending in a recurved spine; subcaudal plates one-rowed.* Acanthophina.

### 9. Acanthophis.

Head-shield rather scale-like; loreal shields none; eyes surrounded beneath with a series of shields; labial shields large; scales smooth, rather thin; anterior dorsal keeled.

Acanthophis, *Daud. Rept.* v. 287. *Cuvier, R. A.* ii. 79. *Wagler, Amph.* 172. *Boie, Isis*, 1827, 556. Ophryas, *Merrem, Tent.* 146, 1820. Boa sp., *Shaw.*

1. The Death Adder. Acanthophis antarctica, *Wagler, Syst.* 172. *Gray, Zool. Misc.* 96. Boa antarctica, *Shaw, Misc. t.* 35. Aspis aculeata, *E. W. Gray, MSS. Brit. Mus.* Boa aculeata, *G. Shaw, MSS. Brit. Mus.* Boa palbebrosa, *Shaw, Zool.* iii. 362. Ophryas Acanthophis, *Merrem, Tent.* 147. *Beytr.* ii. 20, *t.* 9. Vipera Acanthophis, *Schlegel, P. S.* 605, *t.* 21, *f.* 21—23. Acanthophis cerastinus, *Lacep. Ann. Mus.* iv. 10. *Daud. Rept.* v 289, *t.* 67, from *Merrem. Guerin, Icon. t.* 24, *f.* 2. A. Brownii, *Leach, Zool. Misc.* i. 12, *t.* 35. Schlingende Natter, *Merrem, Beytr.* i. 20, *t.* 3. Death Viper or Death Adder, *Colonists.*

Olive, very minutely punctulated with broad darker cross bands; upper lip white-spotted; lower lip and chin yellow, black-spotted; lowest series of scales and ventral shields dark, yellow-edged.

*a.* In spirits. Bleached. Old collection.
"Aspis aculeata, *E. W. Gray, MSS.*" "Boa aculeata, *G. Shaw, MSS.*"

*b.* In spirits. Adult. Australia, Van Dieman's Land? Presented by the Rev. J. Wilton.

*c.* In spirits. Adult. N. W. Australia.

*d.* In spirits. Adult. Port Essington. Presented by the Earl of Derby.

*e.* Stuffed. Adult. Australia.

The family contains 9 genera and 20 species, of which 2 genera and 4 species are from Asia, 5 genera and 12 species from Africa, 2 genera and 3 species in Europe, and 1 genus and 1 species from Australia. All the genera are confined to a single quarter of the globe, except *Echis*, which has 1 species from Africa and the other from India, and each of these species form a subgenus. Schlegel described only 12 species.

## Sub-order II. Colubrine Snakes. Colubrinia.

Ophidia, Heterodermia, Colubrinia (Alepia and Diplepia), and Homodermia (Platuria), *Rafin. Anal. Nat.* 77, 1815. Serpents propres non Vénéneux, et S. Vénéneux à Crochets accompagnes d'autre dents, *Cuvier, R. A. ed.* 2, ii. 74, 96. Serpentia Gulones Innocui, et S. G. Vénénati pars, *Merrem, Tent.* 81, 141. Les Serpents non Vénéneux, Les Serpents Vénéneux Serpentiformes, et Les Serpents des Mer, *Schlegel, Phys. Serp.* ii. 1, and 440, 488. Reptilia Hysioidea, Pythonoidea, Colubroidea and Bungaroidea, *Fitz. N. Class.* 26, 32. Harmless snakes, *Gray, Syn. Brit. Mus.*

### Fam. III. Hydridæ.

The ventral shields narrow, hexagonal or band-like: the hinder limbs not developed: the eyes and nostrils superior, vertical, the latter valvular, generally placed in the middle of a shield, with a slit or groove to its outer edge: fangs moderate, intermixed with the maxillary teeth: pupil small, round: tail compressed or conical. Living in the sea or salt-water lakes, or in fresh-water

Hydri and Pseudo-Vipera, *Oppell, Rept.* 1811. Hydridæ, *Gray, Ann. Phil.* x. 1825, 206. *Zool. Misc.* 59, 1842. *Bonap. Amp. Eur.* 9. Bungaroidea, § 1, and Colubroidea pars, *Fitz. N. Class. Rept.* 32, 54, 1826. Hydrophidæ, *Boie, Isis*, xx. 510, 1827. Serpens d'eau douce (part), and Serpents de Mer, *Schlegel, Phys. Serp.* 332, 488. (Ophidia Homodermia), Platuria, *Rafin. Anal. Nat.* 77, 1815. Chalinophidia (fam. Hydrophis) and Hemiophidia (fam. Pelophis, and Nectophis), *Fitz. Consp. Ophid.* 1846.

#### *Synopsis of the Genera.*

I. *Tail compressed* (except in Acrochordus). *Belly keeled, with two rows of small scale-like shields, often united together into a single, rather broad, six-sided shield.*

A. *Head shielded to the nape. Nasal shields very large, with a large, operculated, superior nostril in their hinder edge; the frontal shields two pairs, small; loreal shield none; labial shields high, large.* Hydrina.

a. *Scales square or six-sided, placed side by side.*

* *Head elongate, depressed.*

1. PELAMIS.

** *Head moderate, rather compressed; gape moderate.*

2. LAPEMIS. Head moderate, short, rounded in front; dorsal scales square; ventral shield broad, six-sided.

3. ATURIA. Head moderate, short, rounded in front; dorsal scales six-sided; ventral shield six-sided.

4. MICROCEPHALOPHIS. Head small; scales six-sided; ventral scales keeled.

b. *Scales ovate, six-sided, imbricate, keeled, or with the keel reduced to a tubercle on the centre of the scales: head and gape moderate.*

* *Labial shields occupying the greater part of the lips; the eyes over the fourth, or rarely over the third, or the fourth or fifth shield: ventral shield united.*

5. ENHYDRINA. Rostral plates narrow, erect; lower linear, sunken; nasal narrowed in front: ventral shield flat: head moderate, short; eyes moderate.

6. HYDROPHIS. Rostral broad, transverse; lower triangular; nasal truncated or notched in front: ventral shield flat: head short; eyes small.

7. CHITULIA. Rostral broad, transverse; lower triangular; nasal truncated or notched in front; ventral shields flat: head elongate, depressed; eyes large.

8. KERILIA. Rostral broad, transverse; lower triangular; nasal truncated in front: ventral shield broad, convex, forming a slight keeled ridge; the hinder ones with a keel on each side: head short, shelving: scales very large, broad, six-sided: eyes rather large, over third and fourth labial shields.

** *Labial shield occupying the front half of the lip; eyes over the fifth or sixth shield; hinder part of the face covered with small scales; ventral scales generally two-rowed, forming a keeled ridge, some united in pairs into six-sided shields.*

9. HYDRUS.

c. *Body covered with smooth, polished, imbricate scales: head as large as the body: ventral shields rather large, transverse, smooth, folded together and keeled.*

10. TOMOGASTER. Head with regular shields; superciliary shields simple; ventral shields entire.

11. STEPHANOHYDRA. Head shields numerous; superciliary shields 3 or 4; ventral shields nicked behind.

B. *Head covered with scales, like the body: nostrils surrounded by a small, continuous ring: eyes surrounded by a series of small scales; labial shields small, with a larger series above them: pupil round: ventral shields very small, scale-like, separated on each side of a keeled ridge.* Rivers. Acrochordina.

12. CHERSYDRUS. Tail compressed, sword-shaped, prehensile: body fusiform, covered with small rhombic scales, with a central tubercular keel.

13. ACROCHORDUS. Tail conical, tapering, moderate: body fusiform, covered with tricuspid scales.

II. *Tail conical, tapering. Belly rounded beneath, with more or less broad band-like shields.* Rivers or ponds.

A. *Head shielded: tail scaly beneath: abdominal shields flat, small, six-sided, with a keel on each side, as if formed of two united scales: nostrils in a ring of small scales: scales keeled.* Erpetonina.

14. ERPETON.

B. *Head shielded: tail with two series of shields beneath: nostrils between two shields: abdominal shields broad, keeled on each side: scales smooth.* Bitiana.

15. BITIA. Head small.

C. *Head shielded: scales striated, and keeled or smooth: tail conical, tapering, with two series of shields beneath: nostrils in centre of a large nasal shield, with a groove to the outer side: ventral shields rounded (or rarely slightly keeled on the sides); frontal shields* 3, *rarely* 2 *or* 4, *all small.* Cerberina.

a. *Crown scaly; occipital rudimentary; frontals* 4; *anterior pair very small.*

16. CERBERUS. Scales keeled, striated; hinder labial shield low.

b. *Crown shielded; occipital moderate.*

* *Head distinct, depressed; frontals* 4; *anterior pair small; rostral rounded.*

17. FERANIA. Scales smooth; seventh upper labial low, with a large shield over it.

** *Head distinct, depressed; frontals* 3; *anterior transverse; rostral rounded.*

† *Fourth and fifth hinder labial shields small or divided.*

18. HOMALOPSIS. Scales keeled.

19. PHYTOLOPSIS. Scales smooth.

†† *Hinder labial large, like others; scales keeled; rostral rounded.*

20. URANOPS. Scales truncated, strongly keeled, striated; eye over fourth shield.

21. TACHYNECTES. Scales truncated, strongly keeled.

22. TROPIDOPHIS. Scales ovate, keeled, striated; eye over fourth and fifth shield.

23. MYRON. Scales ovate, slightly keeled, smooth.

24. HELICOPS. Scales ovate, polished; of back and tail keeled.

††† *Hinder labials large, like others; scales smooth; rostral rounded.*

25. HYPSIRHINA. Seventh labial large; eye over fourth and fifth labial; loreal distinct.

26. FARANCIA. The seventh labial large; eye over the third and fourth labial.

27. HYDROPS. The seventh labial large: eyes over the fourth labial; ventral shield broad; body thick; loreal none.

28. HYGINA. The seventh labial large; eyes over the fourth labial; ventral shield narrow; body slender; loreal none.

29. DIMADES. The seventh labial short, small; eye over third and fourth labial; loreal none.

*** *Head moderate, depressed; frontal* 3; *anterior elongate, erect, between the nasals; seventh smooth; rostral rounded.*

30. FORDONIA. Scales broad, rhombic; ventral shield rounded; loreal none; eye over third labial

31. GERARDA. Scales broad, rhombic; ventral shields rounded; eye over fourth shield; loreal square.

32. HIPISTES. Scales narrow, flattened; ventral shields keeled at each end; loreal square.

**** *Head indistinct: frontal* 4; *anterior four-sided, rather smaller; scales smooth; body cylindrical.*

33. ABASTOR. Body cylindrical; loreal shield none; anterior frontal four-sided; posterior ocular 2.

34. RACLITIA. Head small, conical; body subcylindrical; anterior frontal very small, triangular; loreal distinct; posterior ocular 1.

35. MIRALIA. "Head small, conical; body compressed; frontal plates 2 pairs; loreal none; posterior ocular 2."

***** *Head moderate, depressed: frontal shields* 2, *small, lateral, rostral shield angular, high, erect, between frontals and nasal.*

36. FICINIA. Head small; rostral plate large, produced between the frontal, angular and recurved in front.

****** *Head small; frontal shields* 2, *transverse, band-like; rostral triangular, subangular.*

37. PROSYMNA.

D. *Head covered with small scales: tail with one row of shields beneath; abdominal shield broad, rounded, smooth: nostril in a shield, anterior, sublateral: scales granular, with rows of keeled scales.* Xenodermina.

38. XENODERMUS.

I. *Tail compressed, except in* Acrochordus. *Belly keeled, with two rows of small scale-like shields, often united together into a single, broad, six-sided, often two-keeled shield. The anterior teeth large, and grooved on the front edge.* Venomous.

Hydrina, *Gray, Zool. Misc.* 59, 1842. Hydridæ, *Gray, Ann. Phil.* x. 1825, 206. Colubroidea, § 1, and Bungaroidea, § 1, *Fitz. N. Syst. Rept.* 32, 1826. Hemiophidia, *fam.* Nectopus, and Chalinophidia, *fam.* Hydrophis, *Fitz. Consp. Ophid.* 1846. Hydrus, *Schneid. H. Amph.* i. 233. *Latr. Rept.* iv. 293. *Daud. Rept.* vii. 372. *Cuv. R. A.* ii. 74, *ed.* 2, ii. 97. *Merrem, Tent.* 138. Hydrophis, *Oppell, Rept.* 59, 1811. Pelamis, *Daud. Rept.* vii. 357.

These are true sea-snakes: they coil themselves up on the shore, living on sea-weeds, and lay their eggs on the shore: they are often found asleep on the surface of the sea, when they are easily caught, as they cannot descend without first throwing themselves on their back, probably to repel the air in their large vesicular lungs, (see *Grey's West. Australia*, 445). Often thrown ashore by the surf: they are sometimes found in rivers, having been brought in by the tide, but they can live only a short time out of salt water. They are often caught in nets, and are held in great dread by the fishermen, on account of their venomous bite.

The pupil is round: Lesson (*Voy. Belanger*) erroneously represents it as linear and erect.

The separation of the specimens of this family into species and genera is attended with great difficulty; the form and number of the shields of the head, lips, temple and chin, are liable to great variation, not only in the different specimens, but often in the two sides of the same individual. The two ventral series of scales are, in the same specimen, sometimes separate, and at other times united

into a shield; and many specimens have a series of small triangular shields on the edge of the lips, between the sutures of the lip-shield, not found in other individuals of the same species.

The distribution of the colours on the body appears to be one of the most permanent characters of the species; but this becomes less distinct in the older specimens, and is often lost in the specimens that have been carelessly or long preserved in a museum.

A. *Head shielded to the nape. Nasal shields very large, with the large operculated superior nostrils in their hinder edge: the frontal shields 2 pair, small: loreal shield none: labial shields high, large: tail compressed.*

a. *Scales square, smooth, imbedded, placed side by side: head elongate, depressed; gape wide; labial shields large, erect; eye over the fourth or fifth shield.* Pelamina, *Gray, Zool. Misc.* 59, 1842.

### 1. Pelamis.

Head long, depressed; gape wide.

Pelamis, *Gray, Ann. Phil.* x. 1825, 207. *Zool. Misc.* 59, 1842. Pelamis sp., *Daud. Rept.* vii. 357. *Cuv. R. A.* ii. 75, *ed.* 2, ii. *Merrem, Tent.* 138. *Fitz. Isis*, 1827, 32. Hydrophis sp., *Latr. Rept.* iv. 193. Enhydris, *Latr. Rept.* iv. 206. *Daud. Rept.* vii. 235. Anguis sp., *Linn.* Hydrus sp., *Schneider, Amph.* i. 233.

* *Back black.*

1. The Black-backed Pelamis. Pelamis bicolor, *Daud. Rept.* vi. 366. *Merrem, Tent.* 138. *Gray, Zool. Misc.* 60. Anguis platura, *Linn. S. N.* i. 391. Nalla whalagellee pam, *Russell, Ind. Serp.* i. 47, *t.* 41. Hydrus bicolor, *Schneid. Amph.* i. 242. *Shaw, Zool.* iii. 566, *t.* 126. Enhydris dorsalis, *Latr. Rept.* iv. 206. *Daud. Rept.* vii. 235. Hydrophis platura, *Latr. Rept.* iv. 197. Hydrophis pelamis, *Schlegel, Phys. Serp.* 508, *t.* 18, *f.* 13—15.

Above black; upper lip, lower part of sides and belly yellow; the lower edge of the hinder part of the black band even; tail yellow, black varied on the upper and lower edge, and with a few black spots on the centre of each side; vent black; posterior ocular shield single, large; lower ocular shield single, continued under the posterior ocular.

*a.* In spirits. Adult. India. Old collection.
"Hydrus bicolor, *Shaw.*"

*b.* In spirits. Adult. Indian Seas. From Mr. Leadbeater's collection.

*c.* In spirits; bleached, in a bad state. ——— ? Presented by the College of Surgeons.

*d.* In spirits. Adult. Tail with some round spots. New Zealand. From Mr. Argent's collection.

*e.* In spirits. Adult. Borneo. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

Var. 1. Like former, but posterior ocular two squares; lower ocular triangular, moderate.

*f—h.* In spirits. Adult. Madagascar? Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

*i.* In spirits. Young; bleached. Infraocular forming part of the lip-shields.

*j.* In spirits. Young. Lower ocular like *d.* From the Museum of the Royal College of Surgeons.

*k.* In spirits. Half grown. Supraocular on one side deficient. ——— ? From the Museum of the Royal College of Surgeons.

*l.* In spirits. Young. Lower ocular divided into two scales. Madras. Presented by J. C. Jerdon, Esq.

Var. 2. Like former, but black dorsal streak narrower, sometimes only as wide as six or eight rows of scales, interrupted into spot behind; vent yellow, rarely black-edged; tail slightly black varied.

*m.* In spirits. ——— ? Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

Var. 3. Like former; tail nearly black, only white above the lower edge, and with four or five narrow white cross bands.

*n.* In spirits. Young. India. Presented by General Hardwicke.

Var. 4. Like former; the lower edge of the hinder part of the black dorsal band sinuous; belly with two round spots in front of vent; tail with large, roundish black spots; one anterior and two posterior oculars. *Russell, Ind. Serp.* ii. *t.* 41. Pelamis bicolor, *Daud. Rept.* vi. *t.* 89.

*o.* In spirits. Adult. Pacific Ocean.

Var. 5. The hinder part of the dorsal band nearly broken into large spots; anal spots very small or none.

*p*. In spirits. Adult. Tail yellow, with a series of large round spots on dorsal edge. ———? Presented by Captain Sir Edward Belcher, K.C.B., R.N.

*q*. In spirits. Half grown. Tail black, spotted on all parts. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

Var. 6. Gullet and side of throat black varied; hinder part of the sides with a black streak or series of black spots; tail black varied and dotted.

*r*. In spirits. Adult. Hinder part of sides with a series of large round black spots. India. Presented by General Hardwicke.

*s*. In spirits. Young. Lateral spots few, round. ———? Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

*t*. In spirits. Half grown. Lateral spots confluent, in a continuous streak. New Zealand. From Mr. Argent's collection.

* *Yellow, with dark dorsal and ventral alternate half rings.*

2. The Ringed Pelamis. Pelamis ornata, *Gray, Zool. Misc.* 60. Hydrus Pelamis, *var.*, *Schlegel, P. S.* 511. *Faun. Japon. t.* 8. White, with black dorsal and ventral alternating half rings: head white, black varied.

*a*. In spirits. Young. Borneo.

b. *Scales square or six-sided, imbedded side by side, smooth, or ventral ones with a central tubercle: head moderate, rather compressed; gape moderate; labial shield narrow, high, erect; eyes over the fourth shield.* Lapemina.

### 2. Lapemis.

Head moderate, rounded in front; gape moderate: scales of back small, regular, square; those on the lower part of the sides and belly larger, rather six-sided, smooth, or sometimes marked with a central tubercular keel; nostrils on the hinder part of the nasal shield, with a groove from the front angle to the lower edge.

Lapemis, *Gray, Zool. Misc.* 60, 1842. Hydrophis sp., *Cuvier, R. A.* ii. 74. Enhydris sp., *Merrem, Tent.* 140. Pelamis sp., *Daud. Rept.* vii. 270. *Cuvier. Merrem.*

** Ventral scales smooth.*

1. The Short Lapemis. Lapemis curtus, *Gray, Zool. Misc.* 60. Hydrus curtus, *Shaw, Zool.* iii. 560. H. Enhydris curtus, *Merrem, Tent.* 140. Pelamis curtus, *Gray, Griffith A. K.*

Yellow in spirits; back with dark cross bands; one anterior and one posterior ocular; ventral scales smooth.

Var. 1. Lower lip with a series of small, triangular, marginal shields.

*a.* In spirits. India? Eyes over the fourth and fifth labial shields, the sixth erect, narrow; temple with small scales; the front temple shield like the sixth labial, and erect. Old collection. Described by Dr. Shaw as Hydrus curtus.

*b.* In spirits. India? Eye over the fourth labial shield, the fifth trigonal, the sixth and seventh small, marginal; temporal shields 3, two lower erect, upper subtrigonal. Old collection.

Var. 2. Lower lip with large labial shield, and only one small, triangular, marginal scale.

*c.* In spirits. Eye over fourth labial shield, fifth triangular; temple shielded; upper shield largest, elongate, margining the small occipital shield. Madras. Presented by J. C. Jerdon, Esq.

*** Dorsal and lateral scales smooth, ventral keeled.*

2. Hardwicke's Lapemis. Lapemis Hardwickii, *Gray, Zool. Misc.* 60. *Illust. Ind. Zool. t.* Hydrophis pelamidoides, *Schlegel, Phys. Serp.* 512, *t.* 18, *f.* 16, 17. *Faun. Japon. t.* 9.

Back olive, yellow cross-banded; belly yellow; scales very large: body rather short, thick: head moderate; loreal shield none, one anterior and one posterior ocular: tail black.

*a.* In spirits. Half grown. Scales of back smooth; head blackish, with a band across the forehead in front of eyes. India. Presented by General Hardwicke.

*b.* In spirits. Adult. Scales of front part of back slightly keeled; head with a frontal cross band, and a streak along the temple. Borneo? Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

*c, d.* In spirits. Adult. Head black with a distinct pale streak on each temple; scales of back smooth.

*e.* In spirits. Adult. Head black, white-spotted; no distinct temple streak; scales of back keeled, of belly very strongly keeled. Philippine Islands. From Mr. Cuming's collection.

*f.* In spirits. Adult. Head with a large square loreal shield on one side? Borneo? Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

Lapemis loreatus, *Gray, Ann. and Mag. Nat. Hist.* 1842, 46.

### 3. Aturia.

Head moderate, rather short, rounded; eyes rather large, over the fourth and fifth labial shields: scales of the back and sides thick, six-sided, smooth, nearly equal; of neck more elongate, subimbricate; labial shield large; chin shields rather larger than those of the gullet; ventral shields rather large, the two central series united into a single broad six-sided plate.

Aturia, *Gray, Zool. Misc.* 41, 1842. Intermediate between *Lapemis* and *Hydrophis*.

#### * *Scales smooth.*

1. The Aturia. Aturia ornata, *Gray, Zool. Misc.* 61.

Head slate-coloured: back with a series of large round spots, and a series of smaller round dark spots on the middle of each side, fifth upper labial smaller than the others; sixth and seventh very small, marginal, with two large high shields above them: temple shields rather large: chin shields one pair, oblong, six-sided, elongate; first five lower labial shields large, high; sixth small, marginal; rest of chin covered with small scales: the second upper labial plate very large, and the top of the fourth occupying the whole under edge of the eye: tail black, with rather broad whitish cross bands.

Var. 1. Lower labial shields 5-5, two front pairs narrow.

*a.* In spirits; partly bleached. Two regular post-oculars on one side, and three irregular ones on the other. Indian Ocean? Old collection.

*b.* In spirits Indian Seas. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

Var. 2. Lower labial shields 4-4, all broad; sides of body with large round spots.

*a.* In spirits. Post-oculars 2; tail black, with white bands on the upper edge only. Madras. Presented by J. C. Jerdon, Esq.

** *Scales slightly keeled.*

2. Belcher's Aturia. Aturia Belcheri.

Pale brown in spirits; back obscurely cross-banded; scales with a very slight short keel, occupying the centre of the scales, which is longest over the dorsal scales; lower labial shields 4-4, broad. Perhaps the adult of the preceding.

*a*. In spirits. Adult. New Guinea. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

3. The Ringed Aturia. Aturia Lapemoides.

Whitish in spirits; neck with broad black rings; body with narrower black rings, which form rhombic spots on the back; head, throat and ventral line blackish; band across forehead and streak along the side of the head over the eyes white; tail black: scales of the neck lanceolate; of the body nearly square, with a slightly raised central keel, like *A. Belcheri*, but scales squarer.

*a*. In spirits. India, Ceylon.

*b*. In spirits. Younger. The black bands broader, leaving oblong white spots, only rather broader than the bands; scales smooth. India, Madras. Presented by J. C. Jerdon, Esq.

4. Microcephalophis.

Head small, rather depressed in front; neck slender, elongate; rostral shield broad, six-sided: labial shields, first upper triangular, small; second, third, fourth and fifth large; sixth smaller: temples with two large shields, one behind the other; hinder margining the occipital: lower rostral small; first to fifth lower labial narrow, high; the sixth and seventh small and square: chin shields two pairs: nasal slender, truncated in front: scales of neck elongate, and of body broad, short, six-sided, slightly keeled: ventral shields, of the neck six-sided, smooth; of the hinder part of the belly keeled; the scales of which they are formed often separate: pupil round (not linear, erect, as figured by Lesson).

Microcephalophis, *Lesson*, *Belanger*, *Voy. Rept.* 183 (not Microcephalus, as quoted by *Schlegel*, *Phys. Serp.* 508). Liopala, *Gray*, *Zool. Misc.* 60, 1842. Hydrus sp., *Shaw*, *Zool.* iii. 560. Enhydris sp., *Merrem*, *Tent.* 141. Hydrophis sp., *Cuvier*, *R. A.* ii. 74. Disteira sp., *Fitz. N. Syst. Rept.* 55, 1826. *Isis*, 1827, 733.

1. The Kadell Nagam. Microcephalophis gracilis, *Lesson*, *Belanger*, *Voy. Rept. t.* 3. Liopala gracilis, *Gray*, *Zool. Misc.* 60.

Hydrus gracilis, *Shaw, Zool.* iii. 560, young. *Merrem*, 141. Disteira gracilis, *Fitz. N. Syst. Rept.* 55. Kadell Nagam, *Russell, Ind. Serp. t.* 13, adult. Hydrophis Kadell, *Boie, Isis*, 1827, 554, from *Russell.*

Slate coloured, beneath paler: neck with narrow, rather distant cross rings: the dorsal scales of the middle of the body smallest, gradually increasing in size and in the strength of the keel as they approach the ventral series; chin shields one pair.

*a*. In spirits. Young. Indian Seas. Old collection, named by Dr. Shaw. Hydrus gracilis.

*b*. In spirits. Adult. India, Madras. Presented by J. C. Jerdon, Esq.

*c*. In spirits. Younger. India, Madras. Presented by J. C. Jerdon, Esq.

c. *Scales ovate, six-sided, imbricate, keeled, or with the keel reduced to a tubercle in the centre of the scale: head and yape moderate.* Hydrina.

Hydrina, *Gray, Zool. Misc.* 60, 1842. Hydrophis, *Daud. Rept.* vii. 372.

** *Labial shields occupying the greater part of the lips: eyes over the fourth, or rarely over the third, or the fourth and fifth labial shields: ventral shields six-sided, formed of two united scales, which are rarely separated.*

### 5. Enhydrina.

Head moderate, rounded in front: rostral small, erect: upper labial shields, first triangular or band-like, high, margining the nasal; second, third and fourth large (fourth under the eyes); fifth, sixth and seventh very small, triangular: temporal shields, three above the latter large, unequal; middle one large, linear, erect: lower rostral elongate, sunk in a deep groove: lower labial, first to fifth elongate, band-like; the first very large; second short; the sixth and seventh low, band-like, marginal: chin shields one pair, lateral, far apart; nasal shields narrowed, subacute in front: eyes rather large: scales of neck narrow, of hinder parts broader: ventral shields narrow, two-keeled, irregular; of throat narrow, like the scales, scarcely distinguishable.

Hydrophis, § *a*, *Gray, Zool. Misc.* 1842. Disteira sp., *Fitz.*

* *The first upper labial very long : eye rather large.*

1. The Bengal Enhydrina. Enhydrina bengalensis. Hydrophis bengalensis, *Gray, Zool. Misc.* 62.

Head rather small: one anterior and two posterior ocular shields: the front upper lip shield very long, strap-like, extending the whole length of the outer side of the nasal plate: reddish, beneath white in spirits: back with narrow cross-bands: scales with a short central raised keel, extending rather more than half the length of the scales of the middle of the body: of the under-side rather larger, with a short central tubercle in the place of the keel: ventral shield rather irregular, like ventral scales, but generally two-keeled; shields on side of chin, under the lower labial shields, larger, two or three pairs.

*a.* In spirits. Adult male. The front upper labial on one side divided into two plates. Bengal. Presented by General Hardwicke.

*b.* In spirits. Half grown. Madras. Presented by Thomas Boileau, Esq.

** *The front upper labial triangular.*

2. The Valakadyen. Enhydrina Valakadyen. Hydrophis subfasciata, *Gray, Zool. Misc.* 62. Valakadyen, *Russell, Ind. Serp.* i. *t.* 11 (good). Hydrus Valakadyn, *Boie, Isis*, 1827, 554. Hydrophis Schistosa, *Schlegel, Phys. Serp.* 500, *t.* 18, *f.* 1—3 (not *Daud.*) Disteira Russelii, *Fitz. Isis*, 1827, 733.

Head rather large: gray, back with narrow dark cross-bands; beneath white: one anterior and one posterior ocular shield: the front upper labial shield moderate, subtrigonal, reaching half-way up the outer edge of the nasal plates; the front lower labial plates with small scales like shields beneath them: scales with a short central raised keel, of middle of under-side rather larger: ventral shields with two keels.

*a.* In spirits. Adult. Partly bleached. India, Bengal. Presented by Dr. P. Russell.

*b.* In spirits. Smaller. The frontal shield on side is bent down, occupying the place of (perhaps united to) the anterior ocular shield, but on one side there is a very small shield at the upper angle of the front of the eye. India. Presented by General Hardwicke.

*c.* In spirits. Adult. India, Madras. Presented by J. C. Jerdon, Esq.

*d*. In spirits. Young. Tail pale-banded. Indian Seas. Purchased at Mr. Stevens's sale.

*e*. In fluid. Adult; not good state. Scales more lanceolate and less keeled? Madras. Presented by J. C. Jerdon, Esq.

Schlegel, *Phys. Serp.* 502, states that Hoogli Pattee, *Russell, Ind. Serp. t.* 10 (Hydrophis Schistosus, *Daud. Rept.* vii. 386; Pelamis Schistosus, *Merrem*, 139; Leioselasma Schistosa, *Fitz. Isis*, 1827, 737), is a half-grown specimen of this species; but this is inconsistent with Russell's description and figure of the head shields.

### 6. Hydrophis.

Head moderate, rather short: nasal shield moderate, four-sided, truncated, or slightly notched in front: rostral shield broad, short, five-sided, three-toothed below: labial shields large, occupying more than half the front of the lips; the first upper square, moderate; the second, third and fourth large, the fourth under the eye (or sometimes divided into two shields under the eye): the four or five lower labial shields large, band-like; the rest small, triangular; there are sometimes some small triangular scales on the edge of the lower lips above the other shields: lower rostral shield triangular: temple shielded: scales of the body with a central keel (less distinct in the young specimens); of the belly broader; of the neck longer, narrower, and less keeled: ventral shield moderately broad, six-sided, often two keeled; of the throat narrower.

Hydrophis, *Daud. Rept.* vii. *Gray, Ann. Phil.* x. 1825, 207 (H. nigrocinctus). Hydrophis, § 2, *Gray, Zool. Misc.* 61, 1842. Hydrophis sp., *Cuv. R. A.* ii. 74. Enhydris sp., *Merrem, Tent.* 140. Polydontes, *Lesson, Belanger, Voy. Zool. Rept. t.* 4. ? Disteira, *Lacep. Ann. Mus.* iv. 199, 210, *t.* 57, 2. *Gray, Ann. Phil.* 1825, x. 207. ? Leioselasma, *Lacep. Ann. Mus.* iv. 198, 210, *t.* 57, *f.* 1.

Boie observes that he could not find the type specimens of Lacepede's genera, *Disteira, Leioselasma* and *Aipysurus*, in the Paris Museum, (*Isis*, 1827, 553).

* *Head small, rather depressed; neck very slender, elongate.*

† *Scales of adult, narrow; ventral shield wide, elongate.*

1. The Shootur Sun. Hydrophis obscura, *Daud. Rept.* vii. 375. Kalla Shootur Sun, *Russell, Ind. Serp.* i. *t.* 8 (good). Pela-

mis obscurus, *Boie*, *Isis*, 1827, 553. Hydrus Pelamis obscurus, *Merrem*, *Tent.* 139. Leioselasma obscura, *Fitz. Isis*, 1827, 738.

Black; head with a yellow spot on each side of occiput; back of neck with a series of round pale spots on each side, nearly united above: body with a series of large roundish white spots, nearly as high as the body, leaving triangular dark marks on the upper and lower part of the body: scales small, elongate, keeled: ventral shield under the throat very distinct, elongate, black; of the belly white, not to be distinguished from the scales.

*a*. In spirits. Head injured. India, Madras. Presented by J. C. Jerdon, Esq.

*b*. In spirits. Young. India. Scales six-sided, very slightly keeled. Presented by T. E. J. Boileau, Esq.

2. Lindsay's Shootur Sun. Hydrophis Lindsayii, *Gray*, *Griffith's Anim. Kingd.* Aturia Lindsayi, *Gray*, *Zool. Misc.* 61.

Head, neck and tail black; nape with two white spots: back of the neck and front part of the body with cross bands, which gradually become larger and form ovate spots on the sides, which are confluent on the middle, and narrower but longer on the hinder part of the body, forming only narrow bands across the tail: scales small, with a minute central tubercle: front upper labial short, square; sixth larger (like the sixth shield of *Liopola* and the one above it united): temple shield large, oblique: four front lower labial large; two hinder small: chin shields two pairs; front large, square. Like *H. obscurus*, but white spot broader.

*a*. In spirits. Very young. China. Presented by —— Lindsay, Esq.

Shootur Sunn, *Russell*, *Ind. Serp.* ii. *t.* 7; Hydrophis chloris, *Daud. Rept.* vii. 377, *t.* 90; Hydrus chloris, *Merrem*, *Tent.* 139, appears to be another species of this section. Black above, with yellow cross-band on the back of the neck, and large triangular spot on each side of the belly.

†† *Scales of adult broad.*

3. The Banded Shootur Sun. Hydrophis fasciata. Hydrus fasciatus, *Shaw*, *Zool.* iii. 563? Hydrophis Hardwickii, *Gray*, *MSS. Brit. Mus.* 1836. Disteira fasciata, *var.*, *Fitz. Isis*, 1827, 734.

Head very small; body and tail brown, yellow-ringed; head and neck brown; a cross-band on the forehead, spot on temple behind

eyes, broad oblong bands across the back of the neck, and upper part of the front of the body, yellow: scales with a narrow keel, occupying about half the length of the dorsal and a small central part of the ventral scales; of the neck nearly smooth.

*a*; *b*. In spirits. Adult and half grown. India, Bengal. Presented by General Hardwicke.
Hydrophis Hardwickii, *Gray*, *MSS. Brit. Mus.* 1836.

*c*. In spirits. Young. Indian Ocean. From Mr. Russell's collection; named by Dr. Shaw.
Hydrus fasciatus, *Shaw*, *Zool.* iii. 563. *Schneid. Amph.* 240.
Liopola fasciata, *Gray*, *Zool. Misc.* 60.

4. The KERRIL. Hydrophis nigrocincta, *Daud. Rept.* vii. 580. *Gray*, *Ann. Phil.* x. 207. *Schlegel*, *Phys. Serp.* 505, *t.* 18, *f.* 5—7, (89, 10?) Hydrus (Enhydris) nigrocinctus, *Merrem*, *Tent.* 140. Anguis Xiphura, *Herm. Obs. Zool.* 1288. Kerril Pattee, *Russell*, *Ind. Serp.* ii. *t.* 6. Leioselasma nigrocincta, *Fitz. Isis*, 1827, 738.

Head rather small: above greenish in spirits, dusky; beneath yellow, with close, rather narrow, dark brown rings: head yellow; front of upper lip, crown, and band from the angle of the mouth across the nape, brown: rostral plates broad and low: one anterior, two posterior oculars: lower rostral plates triangular: the four front lower lip plates large, the hinder pair much the largest, rest small: chin shields two pairs: tail regularly and equally brown, and yellow-banded: temple shielded, the central shield larger than the others: scales with a very narrow, slight, elongate keel; of the lower part of the body with a stronger keel, forming a ridge occupying about half the length of the central line of the scales.

*a*. In spirits. Bengal. Presented by General Hardwicke.

### ††† *Scales rather elongate, largely keeled.*

5. The BLACK-HEADED KERRIL. Hydrophis doliata, *Gray*, *Zool. Misc.* 6. Disteria doliata, *Lacep. Ann. Mus.* iv. 199, *t.* 10, *t.* 57, *f.* 2? *Gray*, *Ann. Phil.* x. 1825, 207. *Fitz. Cat. Gray*, *App. King's Voy.* ? Enhydris doliatus, *Merrem*, *Tent.* 140.

Grayish white, back with darker bands; head, throat and streak on the front of belly black: scales with an elongated, regular, narrow keel, ending in a tubercle at the end, the keel and subterminal tubercles being more distinct on the lower and hinder part of the body; of tail broad and smooth: lower lip with a marginal series of triangular scales: the second and third upper labial shields nearly equal: one large anterior and two small posterior oculars.

*a*. In spirits. Adult. White, with dark cross-bands; head and ventral shields black; the eyes over the fourth, fifth and the end of the third labial shields. Australia. Presented by Capt. P. P. King, R.N.

D. doliata, *Gray, in King's Voy. App.*

*b*. In spirits. Young. Head and ventral shields black; body white; back with broad, oblong, transverse black spots, and alternating narrow black cross-bands, and sides with a series of round black spots; keels only to be observed on the black scales; nasal shield, with a small broad shield on each side between it and the upper edge of the front labial: eye over the broad fourth shield. N. Coast Australia, Port Essington. From Mr. Gilbert's collection.

Aturia elegans, *Gray, Zool. Misc.* 61.

** *Head moderate, rounded in front; neck moderate, thick.*

† *Scales rather broad, slightly keeled.*

6. Shaw's Chittul. Hydrophis subcincta, *Gray, Zool. Misc.* 63. Hydrus major, *var., Shaw, Zool.* iii. 559.

Above pale blackish ash in spirits, with some whitish cross-bands; whitish beneath: one anterior and two posterior oculars: temporal shield large, triangular: head rather small; neck much slenderer than the body: second upper labials very large, oblique; the lower lip with a small, triangular, marginal scale; chin shields two pairs: scales with a very slight, short, tubercular-like keel near the end of those of the neck, and in the middle of the other scales, most distinct in the ventral scales; ventral shield rather broad, with two small tubercles, and very often marked with a central groove.

*a*. In spirits. Indian Ocean. Old collection. Described by Dr. Shaw.

Hydrus major, *var., Shaw.*

7. The Chittul. Hydrophis sublævis, *Gray, Zool. Misc.* 62. Chittul, *Russell, Ind. Serp.* i. *t.* 9. Hydrus cyanocinctus, *Boie, Isis*, 1827, 554, from *Russell.* Hydrophis cyanocinctus, *Daud. Rept.* viii. 383. Hydrus Brugmansii, *Boie, Isis*, 1827, 554, fide *Schlegel.* Enhydris cyanocinctus, *Wagler, Syst.* 166. Leioselasma cyanocinctus, *Fitz. N. Class.* Hydrophis nigrocinctus, adult, *Schlegel, Phys. Serp.* 585, *t.* 18, *f.* 8—10 (not 6—8 as cited).

Yellow, black varied: body with irregular black rings: back of neck with broad black cross-band.: lips and beneath pale: scales

nearly smooth; of the hinder part of the back rather concave, with a central ridge which looks like a keel: ventral shield broad, six-sided, smooth, sometimes divided into two or marked with a slight central groove; occipital shields large, triangular, produced behind with a small central shield behind them, and a series of four large temporal shields on their outer side; chin shields two pairs: eyes very small, over the narrow fourth and fifth labial shields: temporal shield large; nasal shield small; frontal smaller: one anterior and two posterior ocular shields; the second upper labial shield elongated.

*a.* In spirits. Adult; nearly bleached. Indian Ocean.

*b.* In spirits. Adult. Black-banded. China. Presented by J. R. Reeve, Esq.

*c.* In spirits. Half grown. Black-ringed. ——? Presented by the College of Surgeons.

*d.* In fluid. Adult. Black-ringed. Eye over the oblique third and fourth shield. Madras. Presented by J. C. Jerdon, Esq.

*e.* In fluid. Aged. Black-ringed. Plate under eye divided obliquely into two. Ceylon. Presented by R. Templeton, Esq.

Var. 1. *Melanocephala.* Throat black; head pale dotted; back of neck black, cross-banded; body with black rings.

*f.* In fluid. Adult. Indian Ocean. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

*g.* In fluid. Young. Madras. Presented by J. C. Jerdon, Esq.

Polyodontes annulatus, *Lesson*, *Belanger*, *Voy. Rept. t.* 4.

8. The Pale Chittul. Hydrophis mentalis, *Gray*, *Zool. Misc.* 62.

Pale whitish in spirits, with indistinct, broad, dark cross-bands on the back: head rather large, very short, broad, blunt: eye small, over fourth and hinder angle of third labial shield: scales rather broad, with a narrow keel reaching more than half the length: lower lip with a series of very shallow oblong scales; the second and third lower labial elongate, reaching the margins of the broad shield below them: the lower rostral plate slender, trigonal: chin shields moderate: one anterior and two posterior oculars.

*a.* In spirits. Indian Ocean. Old collection.

9. The Eyed Chittul. Hydrophis ocellata.

Pale in spirits: back with an alternate series of large, oblong, transverse, pale-centred, and of smaller round dark spots: sides with three series of round spots, those of the upper series largest: tail with a series of oblong transverse spots on the upper and lower edge: head large, blunt, olive; scales rather small, in many series broad,

six-sided, with a very slight central tubercle; of neck larger, smoother: one anterior and two posterior oculars: body much compressed, high: ventral shield small, six-sided, from the throat, smooth.

*a.* In spirits. Australian seas? Presented by the Earl of Derby. From Mr. Macgillivray's collection.

10. The Shiddil. Hydrophis spiralis. Shiddil, *Russell, Ind. Serp.* i. *t.* 12. Hydrus Shiddil, *Boie, Isis*, 1827, 554. Aturia spiralis, *Gray, Zool. Misc.* 61. Hydrus spiralis, *Shaw, Zool.* iii. *t.* 125. Enhydris spiralis, *Merrem, Tent.* 140. *Gray, Ann. Phil.* x. 207, 1825. Leioselasma spiralis, *Fitz. Cat.* Hydrophis nigrocincta, part, *Schlegel, Phys. Serp.* 505? Hydrophis melanura, *Wagler, Amph. t.* 3.

Olive-green, beneath yellow, with a series of round black spots, smallest on the middle of the body: back with rather narrow close black rings, forming a line along the belly: tail black, with three unequal red rings at the base: the fourth upper labial shield under the eye: in spirits pale yellowish ringed with brown, beneath whitish: head moderate, black, with a horse-shoe-shaped yellow band: first upper labial shields small, square; second to sixth large, high; last triangular, with a large scale above it: temple shield short, broad: one anterior and two posterior oculars: three front lower labial shields and fifth triangular, very small, with band-like shields behind them; sixth band-like; seventh smaller: chin shields two pairs, equal: body subcylindrical, slender.

*a.* In spirits; has been dried. Indian Ocean? Presented by Dr. Russell. Described and figured by Dr. Shaw.
Hydrus spiralis, *Shaw, l. c. t.* 125.
*b.* In spirits. Indian Ocean. Presented by Sir James Mc'Grigor.
*c.* In spirits. Indian seas. The two lower labial shields on one or both sides triangular, with a band-like shield below them. Presented by Sir James Mc'Grigor.

11. The Ringed Sea Snake. Hydrophis subannulata.

Black; sides of body and tail with ovate or lanceolate white spots, which generally unite; olive over the centre of the back, forming rings, which are incomplete beneath; crown and lips yellow-spotted; two spots in front of nose plates, a band across forehead in front of eyes, and some spots on crown and at back angle of the eyes; neck with a narrow white ring; hinder part of chin and angle of the gape white varied: scales lanceolate, very obscure, keeled; keel narrow, extending rather more than half the length of the dorsal scales (most seen in the black scales): one small anterior and

two posterior oculars: lower lip edged with a series of triangular scales.

*a.* In spirits. India. Presented by the Zoological Society.

†† *Scales rather elongate, tubercularly keeled.*

12. The Rough Sea Snake. Hydrophis aspera.

Pale: back with lozenge-shaped cross-bands: tail dark: scales with a strong short keel, with two or three tubercles on it; of the front part of body lanceolate, and the hinder part and under-side broader: ventral shield (of two united scales) from the throat, with two distinct tubercular keels: head moderate, short, thick; head shields granular: one anterior and two posterior oculars: lower labial shields small, triangular, with band-like shield between them: upper labial shields moderate; second largest; sixth small, triangular, with a rather large shield above it: chin shields one pair, moderate.

*a.* In spirits. Singapore? From Mr. Gardener's collection.

1. Hydrophis striata, *Boie, Faun. Japon., t.* 7; *Schlegel, Phys. Serp.* 502, *t.* 18, *f.* 4, 5, may be intended for this species; but Schlegel's description is so general that it rather fits the genus than any particular species.

2. Hydrophis hybrida, *Schlegel, Abbild.* 115, *t.* 37, appears also to be allied to this species: perhaps a variety, with the dorsal spot smaller.

13. The Bluish Sea Snake. Hydrophis cærulescens, *Gray, Zool. Misc.* 6. Hydrus cærulescens, *Shaw, Zool.* iii. 561. Enhydris cærulescens, *Merrem, Tent.* 140.

Above blackish ash in spirits, beneath whitish; side of the neck and base of the tail with white bands, of the body with roundish white spots; tail blackish ash: scales elongate, six-sided, with short subcentral tubercle-like keel; of the front of the body narrow, lanceolate, and the hinder part and under-side broad: ventral shields from neck with two short slight keels: head shields tubercular: lower rostral shield trigonal, sub-equilateral: the first, second and third lower labial shields large; fourth small, triangular, with large plates below it: chin shields one pair, moderate.

*a.* In spirits. Indian Ocean. Specimen described by Dr. Shaw. H. cærulescens, *Shaw.*

*b.* In spirits. India, Bengal.

Var. 1. Scales with a smaller, more indistinct keel; anterior ventral shields narrow, ovate, smooth, with a distinct central groove: the hinder one broader, with two slight keels; chin shields small.

*c.* In spirits. India, Bengal? Presented by General Hardwicke.

### 7. Chitulia.

Head elongate, rather depressed in front: nasal shields rather broad, four-sided, trimucronated in front: rostral shield broad, short, five-sided: labial shield large; first upper square, moderate; second, third and fourth large; hinder small, triangular: lower rostral triangular, small: the five front lower labials large, with some triangular marginal shields: chin shields two pairs, close together: temple shielded; occipital shield prolonged behind: eyes large, over the fourth labial shield: pupil round: neck moderately thick: scales of body six-sided, truncated, with a central keel; of neck thinner and smoother; of belly broader and rounded: ventral shields moderate, broad; of the neck smooth and more elongate.

1. The Chitulia. Chitulia inornata.

Bluish gray; lips, lower part of sides and beneath white; tail dark bluish gray, with three or four narrow white cross-bands: head shield smooth: scales six-sided, with a very slight central tubercle; of neck more elongate and smooth: one anterior and two posterior equal ocular scales: temple with two shields; the lower triangular; the upper elongate, margining the occipital shield, with a small triangular shield behind it.

*a.* In spirits. Adult. Indian Ocean. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

2. The Keeled Chitulia. Chitulia fasciata.

White in spirits; crown and lips olive; back of neck and body with broad squareish cross-bands, leaving a narrow white cross-band, the dark band becoming more angular and wider apart on the hinder part of the back: scales concave, with a round central keel, which is higher and more raised at the end on the belly; scales of the neck scarcely keeled.

*a.* In fluid. Indian Ocean. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

The Hoogli Pattee, *Russell, Ind. Serp.* i. *t.* 10. Hydrophis Schistosus, *Daud. Rept.* vii. 386. Pelamis Schistosus, *Boie.*

Schlegel (*Phys. Serp.* 502) regards it as the adult of *E. Valakadyn*; but the form and size of the head is opposed to that theory, and it most probably belongs to this genus.

### 8. Kerilia.

Head moderate, rather small, rather narrow and shelving in front: neck moderate: nasal shield short, broad, truncated in front: frontal shields small, triangular: rostral shield broad, five-sided: upper labial shields all large; the first square, smallest; sixth largest; third and fourth under the eye: lower rostral moderate, triangular: first, second and third lower labial shields rather large; first highest; the fourth and fifth rather smaller, lower: chin scales one pair: scales very large, broad, six-sided, keeled, in 24 or 26 longitudinal series: ventral shields six-sided, two-keeled; anterior ones nearly smooth; all rather convex, with the sides folded together, forming a rather blunt ventral keel: eyes rather large; pupil round.

1. The Kerilia. Kerilia Jerdonii.

White in spirits: back grayish, with (about 46) irregular broad black rings: face in front of eyes black: end of nose and chin gray: head shields smooth, polished: scales large, broad, six-sided, keeled: keel dark brown, horny, rather tubercular at the end; scales of the neck shorter and subcentral, with a tubercle.

*a.* In spirits. Adult? Madras. Presented by J. C. Jerdon, Esq.

### *Doubtful species.*

1. Leioselasma striata, *Lacep. Ann. Mus.* iv. 198, 200, *t.* 57, *f.* 1. Enhydris striatus, *Merrem, Tent.* 146.

2. Disteria doliata, *Lacep. Ann. Mus.* iv. 210.

3. Tatta pam, *Russell, Ind. Serp.* ii. *t.* 44. Anguis mamillaris, *Daud. Rept.* vii. 546. Typhlops mammilaris, *Merrem, Tent.* 158. Hydrophis gracilis, part, *Schlegel, Phys. Serp.* 508.

** *Labial shields occupying only the front half of the lips: eyes over the fifth or sixth shield: hinder part of lips covered with small scales: ventral scales generally free, two-rowed, forming a keeled ridge, or sometimes united in pairs into a flattish six-sided shield.*

### 9. Hydrus.

Scales elongate, lanceolate; of the neck longer and more acute, keeled: eyes small; pupil round.

Hydrus, *Gray*, *Zool. Misc.* 60, 1842. Hydrus sp., *Shaw*, *Zool.* iii. 558. Pelamis sp., *Merrem.*

1. The Sea Snake. Hydrus major, *Shaw*, *Zool.* iii. *t.* 124. *Gray*, *Zool. Misc.* 60. Pelamis Shawii, *Merrem*, *Tent.* 139? Hydrus Stokesii, *Gray*, *in Stokes's Australia*, *App.* 4, *t.* 3.

White in spirits; dorsal and ventral edge with alternate broad and narrow black cross-bands; sides with a series of small roundish spots, becoming nearly uniform whitish when adult; labial shield reaching to the eye.

Var. 1. Hinder labial shield small, triangular, with the scales above them larger and transverse.

*a.* In spirits. Half grown. Anterior ocular moderate; hinder ocular shields 3, small; ventral shields almost all separate. India. Old collection. Described by Dr. Shaw.
H. major, *Shaw*, *Zool.*

*b.* In spirits. Half grown. Anterior ocular 1, posterior 2; the front ventral shield united into cordate, smooth plates; rest lanceolate, separate. Port Essington. Presented by the Earl of Derby.

*c.* In spirits. Very young. Scales short, blunt, polished, very obscurely keeled: white; back with alternate broad and narrow black cross-bands; sides with a series of roundish black spots, and with an alternate series of small black spots and short cross-bands. Port Essington. Presented by the Earl of Derby.

Var. 2. *Stokesii.* The hinder labial shields moderately large, subtriangular, rather high, as large as the series of scales above them.

*d.* In spirits; bleached. Adult. Hinder ocular 2. Australian Ocean. Presented by Captain Stokes, R.N.
Hydrus Stokesii, *Gray*, *l. c. t.*

2. The Ringed Sea-Snake. Hydrus annulatus.

Yellow, with irregular black rings; hinder ocular 2, and an oblong inferior ocular between the eyes and labial shields.

*a*. Adult. Singapore. From Mr. Gardener's collection.

c. *Ventral shields broad, six-sided, keeled in the middle, with sides folded together; body covered with smooth polished scales.*

10. Tomogaster.

Tomogaster, *Dum. & Bib. MSS. Voy. Pol. Sud. Oph. t.* 6, not described.

Head rather small, regularly shielded; crown flattened: rostral broad, six-sided; nasal large, superior, close; frontals one pair, transverse, truncated in front, with two angles behind; vertebral and occipital well developed; superciliary one over each eye large: one large anterior and two posterior oculars: labial shields square, the fourth upper under the eye: temple shielded: chin shields two pairs: body subcylindrical, slightly angular; belly keeled, especially behind: scales ovate, smooth, thin, rather polished: ventral shield broad, six-sided, keeled, entire: tail compressed: scales smooth, upper and lower series keeled and folded together. The scales have more the appearance of *Hydrina*, while those of *Stephanohydra* resemble the scales of *Elaps* and other terrestrial snakes.

1. The Tomogaster. Tomogaster Eydouxii, *Bibron, MSS. Voy. Pol. Sud. Ophid. t.* 6.

Slate-coloured, with cross-bands of roundish white spots united, forming pale triangular spots on the lower part of the sides; belly whitish; head black, not spotted; neck blackish.

*a*. In spirits. Indian Ocean. From the Paris collection.

"Tomogaster Eydouxii."

11. Stephanohydra.

Head rather large, depressed, rounded in front; head-shields numerous, unequal, smooth, polished; parietal largest; supra-orbital 3-3; front small, hinder largest; nasal large, superior; anterior ocular 1; posterior 3, unequal: labial shields large, high, the middle ones reaching to the lower edge of the orbit: rostral square, large, convex; inferior rostral small, triangular, with a rounded notch above; temple and throat covered with six-sided imbricate

scales: nostrils semilunar, superior, valvular, in the middle of a nasal shield: eyes moderate, rather superior; pupil round: body elongate, rather compressed, covered with small, polished, six-sided, imbricate scales: belly compressed, strongly keeled: ventral shields band-like, transverse; sides folded together, with a central notch in the middle of the hinder edge: tail strongly compressed, oblong, covered with a series of more or less broad transverse scales; the upper and lower edge strongly keeled, and covered with folded scales; the tip torn, covered with a single, large, compressed, conical scale.

Stephanohydra, *Tschudi, Wiegm. Arch.* iii. 331, 1837. Hypotrophis, *Gray, Ann. and Mag. Nat. Hist.* 1846, *in Jukes' Narrat. Voyage of H.M.S. Fly*, ii. 334. Hydrophis sp., *Schlegel.*

Tschudi's snake from the Celebes is evidently the same as Mr. Jukes'. The figure and Latin description do not represent or mention the large size nor the keeled form of the ventral shield, which induced me (as it appears to have done M. Schlegel) to regard it as *Hydrophis*, which had not come under my examination.

1. Jukes' Hypotrophis. Stephanohydra fusca, *Tschudi, Wiegm. Arch. Naturg.* iii. 332, *t.* 8, 1837. Hypotrophis Jukesii, *Gray, Ann. & Mag. Nat. Hist.* 1846, *and in Jukes' Narrat. Voy. Fly*, ii. 334, *t.* 1. Hydrophis pelamoides, *var., Schlegel, Abbild*, ii. 5.

Pale olive-brown in spirits, rather paler beneath.

*a*. In spirits (without bones of body). Length 5 feet. Darnley Islands. Presented by J. B. Jukes, Esq.

B. *The head covered with scales like the body. The nostrils surrounded by a small continued ring. Eyes surrounded by a series of small scales. Labial shields serrated, with a larger series above them. Pupil round. Ventral shields very small, scale-like, separate, on each side of a keeled ridge.* Rivers. Acrochordina.

Hemiophis, *fam.* Nectophis, *Fitz. Syst. Rept.* 1842. Colubroidea pars, and Bungaroidea, *Fitz. N. Syst. Rept.* 29, 31, 1826. Les Boas pars, *genus* Acrochordus, *Schlegel, Phys. Serp.* 425. Pholidophides, *fam.* 1, Atryphodonto pholidophides. 2. Chalinipholidophides, *Ritgen, Nov. Act. Nat. Cur.* xiv. 1828, 259. Achrochordinæ, *Bonap. Amp. Eur.* 7.

## 12. Chersydrus.

Tail compressed, prehensile, sword-shaped: body fusiform, covered with small rhombic scales with a central tubercular keel.

Chersydrus, *Cuvier*, *R. A.* ii. 75, 1817, *ed.* 2, ii. *Merrem*, *Tent.* 138. Chersydræas (misprint), *Gray*, *Ann. Phil.* x. 1825, 207. Hydrus (Chersydrus), *Merrem*, *Tent.* 138, 1820. Pelamis sp., *Daud.* Acrochordus sp., *Shaw*, *Zool.* iii. *Schlegel*, *Phys. Serp.* 425.

1. The CHERSYDRUS. Chersydrus granulatus, *Merrem*, *Tent.* 138. Hydrus granulatus, *Schn. Amph.* i. 243. Pelamis granulatus, *Daud. Rept.* vii. 370. Acrochordus fasciatus, *Shaw*, *Zool.* iii. *t.* 130. *Schlegel*, *P. S.* ii. 420. *Boie*, *Isis*, 1827, 511. *Wiegm. N. Act. Leop.* xvii. 1835, 245.

Black, with alternating, transverse, ovate-lanceolate spots on each side; head white-spotted; tail with roundish white spots.

*a*, *b*. In spirits. Nearly adult. Black, with a few narrow white stripes on each side. India. Old collection. Named by Dr. Shaw. Acrochordus fasciatus, *Shaw*, *Zool.* iii. *t.* 130.

*c*, *d*. In spirits. Adult. Black; ventral keel white, with some narrow white stripes on each side behind. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

*e*. In spirits. Young. Black; white spots larger and more distinct.

2. The ANNULATED CHERSYDRUS. Chersydrus annulatus. C. granulatus, *var.*, *Gray*, *Zool. Misc.* 63.

Black, with broad yellow rings, which are generally interrupted on the back; head with many yellow spots; tail yellow-ringed.

*a*. In spirits. Nearly adult. Head large. Singapore. Presented by General Hardwicke.

*b*, *c*. In spirits. Nearly adult. Madras. Presented by J. C. Jerdon, Esq.

*d*. In spirits. Young. Sumatra. From the Leyden Museum. Acrochordus fasciatus, *Schlegel*.

*e*. In spirits. Young. Madras. Presented by Thomas E. Boileau, Esq.

## 13. ACROCHORDUS.

Tail moderate, conical, tapering; body fusiform, covered with tricuspid scales.

Acrochordus, *Hornstedt*, *in N. Schwed. Abh.* vii. 294, 1797. *Lacep. Quad. Ovip.* ii. 272. *Daud. Rept.* vii. 388. *Cuv. R. A.* ii. 72, *ed.* 2, ii. *Merrem*, *Tent.* 81. *Fitz. N. Syst.* 54, 1826. *Gray*, *Ann. Phil.* x. 207, 1825. *Zool. Misc.* 1842. *Boie*, *Isis*, 1827, 511.

Acrochordus sp., *Shaw, Zool.* iii. *Schlegel, Phys. Serp.* 425. *Lacep. Quad. Ovip.* ii. 472, *t.* 11, *f.* 2. *Shaw, N. Misc. t.* 148. *Zool.* iii. 573, *t.* 128. *Merrem, Tent.* 81. *Gray, Zool. Misc.* 63.

1. The ACROCHORDE. Acrochordus Javanicus, *Horst. Abh. Acad. Stock.* 1797; vii. 306, *t. Schlegel, Phys. Serp.* ii. 428. *Abbild.* 55, *t.* 17, *f.* 12, 14. *Boie, Isis*, 1827, 511. A. Javensis, *Daud. Rept.* vii. 390. *Cuvier, R. A.* ii. 72. A. dubius, *Shaw, Zool.* iii. *t.* 29, good.

Adult brown; young brown, with darker bands and streaks.

*a.* In spirits. Adult. Uniform brown. Old collection. Described by Dr. Shaw.

A. Javanicus, *Shaw, Misc. t.* 141.

*b, c.* In spirits. Young; with darker longitudinal streaks. India. Presented by General Hardwicke.

A. dubius, *Shaw, MSS. Brit. Mus., in Zool.* iii. *t.* 129.

*d.* Stuffed. Adult. Java. Presented by the East India Company.

II. *Tail conical, tapering. Belly with more or less broad band-like shields.* Fluviatile.

Hemiophodia, *fam.* Pelophis, *Fitz. Syst. Rept.* 1843. Homalopsis and Pseudoeryx, *Fitz. N. Class.* 55, 1826. Hydrophidæ pars, *Boie, Isis*, xx. 1827. Serpents d'eau douce pars, *genus* Homalopsis, *Schlegel, Phys. Serp.* Colubridæ pars, *Gray, Ann. Phil.* x. 1825, 208.

A. *Head shielded. Tail scaly beneath. Nostril in a ring of small scales. The abdominal shield very small, six-sided, flat, keeled on each side, as if formed of two scales united.* Erpetonina.

14. ERPETON.

Head moderate; crown shielded, with some small shields between the vertical and superciliary shields, a double set of labial shields, and a compressed scaly beard on each side of the muzzle: nostrils in the middle of a series of small scales: dorsal scales imbricate, keeled: abdominal shield small, long, narrow: subcaudal shields scarcely different from the other scales.

Erpeton, *Lacep. Bull. Soc. Philom.* 1801, xlvi. 169. *Ann. Mus.* ii. *t.* 150. *Dumeril, Z. A.* 89. *Latr. Rept.* iv. 190. *Daud. Rept.* vii. 243. *Cuv. R. A.* ii. 68, *ed.* 2, ii. *Gray, Ann. Phil.* x. 1825, 209. *Zool. Misc.* 63, 1842. Rhinopirus, *Merrem, Tent.* 81,

1820. Homalopsis sp., *Schlegel, Phys. Serp.* 359. Herpeton, *Wagler, Syst. Amph.* 169.

1. The Erpeton. Erpeton tentaculatus, *Lacep. Ann. Mus.* ii. *t.* 50. *Latr. Rept.* iv. 198. *Boie, Isis*, 1827, 511. *Daud. Rept.* vii. 246, *t.* 86. *Guerin, Icon. Rept. t.* 20, *f.* 3. Rhinopirus Erpeton, *Merrem, Tent.* 12. Homalopsis Herpeton, *Schlegel, Phys. Serp.* 359. *Abbild.* 50, *t.* 16.

Pale brown, with the whitish streaks continued on the tail.

Inhabits ——— ? Mus. Paris; from the old Dutch collection.

B. *Head shielded. Tail with two series of shields beneath. Nostrils superior, between two plates. Abdominal shields broad, keeled on each side: scales smooth.* Bitiana.

15. Bitia.

Head small; crown shielded: frontal plates 3; anterior between the two larger nasal plates; posterior very small, rudimentary: upper nasal scale the smallest, at the upper hinder angle of the larger ones: vertebral plate longitudinal, rather larger than the rather narrow superciliary shields: occipital plates trigonal, placed in pairs; one triangular rather large loreal; one high band-like anterior and a larger inferior and small superior posterior ocular: front upper labial shields moderate, hinder very large: body elongate, slender, rather compressed: dorsal scales smooth: ventral shields keeled on each side: tail short, conical, subtrigonal, end compressed, sharp-edged above.

1. The Bitia. Bitia hydroides.

Lead-coloured in spirits, with broad blackish cross-bands: head blackish; throat and beneath whitish.

*a.* In spirits. ——— ?

C. *Tail with two series of shields beneath. Nostrils in centre of a large nasal shield, with a groove from their outer end to the outer side of the shield. Ventral shield broad, rounded. Frontal shields* 3, *or rarely* 2 *or* 4, *small; anterior one sometimes divided; generally one anterior and two posterior oculars. Scales, when nearly dry, often minutely longitudinally grooved.* Cerberina.

a. *Crown scaly; occipitals rudimentary; frontals* 4, *anterior very small.*

16. Cerberus.

Head dilated behind; crown scaly; face shielded to the eyes: anterior frontal small; superciliary small; vertical rudimentary

or none; occipital none: front upper labial shields narrow and high, hinder divided: loreal small: one or two small shields under the eyes: body elongate, round; tail conical: scales all keeled, very minutely and longitudinally striated.

Cerberus, *Cuvier, R. A.* ii. 81, *ed.* 2. Homalopsis sp., *Kuhl. Isis*, 1827, 521. *Wagler, Syst. Amph.* 169. Hurria sp., *Daud. Rept.* v. 275, viii. 385, from *Hurria, Rup.* i. *t.* 40. Python sp., *Merrem, Tent.* Coluber (*** Homalopsis), *Gray, Ann. Phil.* 1825, x. 208. Hydrus sp., *Shaw, Zool.* iii. Enhydris sp., *Latr. Rept.*

* *Sides, streak white.*

1. The Karoo Bokadam. Cerberus cinereus, *Gray, Zool. Misc.* 64. *Cantor, Proc. Zool. Soc.* 1838, 54. Coluber cinereus, *Daud. Rept.* Karoo Bokadam, *Russell, Ind. Serp.* i. *t.* 17. Hydrus rhynchops, *Schneid. H. Amph.* i. 246. Enhydris rhynchops, *Latr. Rept.* iv. 202. Coluber cerberus, *Daud. Rept.* vii. 167. Hydrus cinereus, *Shaw, Zool.* iii. 567. Python rhynchops, *Merrem, Tent.* 90. Homalopsis rhynchops, *Boie, Isis*, xx. 550. *Seba, Thes.* ii. *t.* 15, *f.* 3. Elaps Boæformis, *Schneid. Hist. Amph.* ii. 301. Boa moluroides, *Schneid. Hist. Amph.* ii. 279. Coluber Schneiderii, *Daud. Rept.* vii. 170. Hurria Schneideriana, *Daud. Rept.* v. 281, viii. 385. Python molurus, *Merrem, Tent.* 99. Homalopsis molurus, *Boie, Isis*, xx. 550. Python elapiformis, *Merrem, Tent.* 89. Coluber, No. 40, *Russell, Ind. Serp.* ii. *t.* 40. Cerberus Russelli, *Cuvier, MSS. Mus. Paris*, fide *Schlegel.* Homalopsis Schneideri, *Schlegel, Phys. Serp.* 341, *t.* 13, *f.* 6, 7. Coluber obtusatus, *Reinw.*

Scales ovate, rounded at the end: brown, with rather close, narrow, black cross-bands; lips and throat white, black-spotted; sides white; belly black, yellow-mottled; tail blackish, sides slightly pale-spotted (colour darker when young): sixth labial under the eye, hinder one double.

*a—c.* In spirits. Young. India. Presented by General Hardwicke.

*d.* In spirits. Young. India. Lower series of scales on hinder part of the body, before the vent acutely keeled. Presented by General Hardwicke.

*e, f.* In spirits. Half grown and young. Borneo. From Mr. Lowe's collection.

*g.* In spirits. Half grown. Madras. Presented by Thomas Boileau, Esq.

*h.* In spirits. Adult. India. Presented by the Royal College of Surgeons.

*i.* In spirits. Adult. Batavia.

*k*. In spirits. Adult. India. Presented by Dr. Patrick Russell.
*l*. In spirits. Adult. Borneo. Presented by James Brooke, Esq.
*m—p*. In spirits. Adult and young. Madras. Presented by J. C. Jerdon, Esq.
*q*. In spirits. India. Presented by the Earl of Derby.
*r*. In fluid. Ceylon. Presented by R. Templeton, Esq.
*s, t*. In fluid. Adult. Lateral streak distinct, white; belly black-spotted. Philippines. From Mr. Cuming's collection.
*u, v*. In fluid. Adult. Lateral streak nearly obliterated; belly very dark. Philippines. From Mr. Cuming's collection.
*w*. In fluid. Young. Var. —— ? . Olive above and below, slightly yellow varied; side-streak broad, 3½ series of scales wide, uniform yellow; anterior frontal 2, separate. Borneo. From Mr. Lowe's collection.

2. The Bornean Bokadam. Cerberus acutus. Homalopsis Schneiderii, *var*. Borneo, *Schlegel, Phys. Serp.* 341.

Scales lanceolate, very acute: lead-coloured (adult, in spirits); lips, lower part of the sides and beneath white; belly dark marbled; cheek-streak none.

*a*. In spirits. Adult. Borneo. From the Leyden Museum, as "Homal. Schneideri, *Schlegel*."

** *Back and sides one-coloured.*

3. The Philippine Bokadam. Cerberus unicolor.

Uniform dull dark bluish gray above and below; scales sharply and strongly keeled, rounded at the end; head-shields rather convex; cheek-streak none.

*a*. In fluid. Adult. Philippines. From Mr. Cuming's collection.

4. The Australian Bokadam. Cerberus australis. Homalopsis australis, *Gray, Zool. Misc.* 64.

Slate-black, in spirits: under lip and beneath white: throat with two oblong black streaks; under-side with two series of large, square, black spots, united by a rather broad, black, central streak: tail black beneath: anterior frontal small, triangular; hinder rhombic: vertebral moderate, ovate; occipital small, scale-like; loreal square: the fifth and sixth labial shields under the eye, the first or second hinder ones double.

*a*. In spirits. North Coast of New Holland, Port Essington. From Mr. Gilbert's collection.
*b*. In spirits. Australia, Port Essington. Presented by Sir John Richardson, M.D., R.N.

b. *Crown shielded; occipital shield moderate.*

* *Head distinct, depressed: frontal shields* 4; *anterior* 2, *very small, triangular.*

17. FERANIA.

Head subcordate, dilated behind; eyes large: anterior frontal two pairs, transverse; hinder upper labial divided: eye over the fourth labial: body compressed; scales smooth, lozenge-shaped, in 29 longitudinal rows: back keeled; belly narrow, very convex; tail conical.

Ferania, *Gray, Zool. Misc.* 67, 1842. Phytomorphus, *Fitz. S. R.* 25, 1843, *no char.* Homalopsis sp., *Schlegel, Phys. Serp.* 349. ANAT., *Schlegel, Phys. Serp.* 349.

1. The FERANIA. Ferania Sieboldii, *Gray, Zool. Misc.* 67. Homalopsis Sieboldii, *Schlegel, Phys. Serp.* 349, *t.* 13, *f.* 4, 5. *Seba*, ii. *t.* 46, *f.* 2. Phytomorphus Sieboldii, *Fitz. S. R.* 25.

Gray-brown, irregularly cross-banded, and a pale dorsal streak; crown with two diverging brown streaks, and a central triangular spot behind.

Inhabits Bengal. Mus. Leyden.

** *Head distinct, depressed: frontals* 3; *anterior triangular, transverse, smal; rostral rounded.*

† *The fourth and fifth hinder upper labial shields small, with similar shields over them.*

18. HOMALOPSIS.

Head dilated behind, swollen on the sides; crown and face shielded; anterior frontal (sometimes divided into two) triangular; vertebral and superciliary moderate; occipitals large; loreal elongate (or two short): the labial shields behind the eye, sixth to ninth divided; anterior ones narrow, high: one anterior large and two posterior oculars: eyes moderate: body thick, fusiform: scales strongly keeled, longitudinally striated: tail elongate.

Homalopsis, *Kuhl. Isis*, 1826, 213. *Boie, Isis*, 1827, 521. *Gray, Zool. Misc.* 64, 1842. *Fitz. S. R.* 25. Homalopsis sp., *Wagler, Syst. Amph.* 169.

* *Eye surrounded with small scalps; loreal* 1.

1. The Homalopsis. Homalopsis buccata, *Schlegel, Phys. Serp.* 337, *t.* 13, *f.* 1. *Russell, Ind. Serp.* ii. *t.* 33. Col. subalbidus, *Gmelin, Syst. Nat.* 1103, from *Seba,* ii. *t.* 23, *f.* 3; and *Merrem, Beytr. t.* 10, from *Seba, Thes.* ii. *t.* 12, *f.* 1, *t.* 13, *f.* 1. *Scheuchz. Phy. Sacra. t.* 660, *f.* 1. Col. buccatus, *Lin. Mus. Ad. t.* 19, *f.* 3. Col. viperinus, *Shaw, Zool.* iii. 465. Col. horridus, *Daud. Rept.* vii. 71 = *Seba,* ii. *t.* 12, *f.* 1. Echidna semifasciata, *Merrem, Tent.* 150. Vipera buccata, *Daud. Rept.* vi. 220, viii. 395. Col. monilis, *Linn. S. N.* i. 381. Demicollier, *Lacep. Quad. Ovip.* ii. 173, *t.* 8, *f.* 2. Homalopsis monilis, *Boie, Isis,* xx. 566. *Fitz. S. R.* 25.

Brown; lips and beneath pale whitish; back with narrow cross-bands; belly with a series of brown spots on each side; head pale brown, marked with a triangular spot on nose, a longitudinal streak on occiput, and a broad streak, including the eye, on each temple.

*a.* In spirits. Adult. Java. From the Leyden Museum.
*b—d.* In spirits. India. Bengal. Presented by General Hardwicke.
*e.* In spirits. Adult. India.
*f.* In spirits. Young. Batavia.

** *Eye on the top of the upper labial shields; loreal* 2.

2. Hardwicke's Homalopsis. Homalopsis Hardwickii, *Gray, Zool. Misc.* 65.

Olive, with black-edged, pale, narrow, often interrupted cross-bands: head pale, with an anterior triangular spot, and a broad streak up the side of the face enclosing the eyes: chin and beneath yellow: sides black-dotted: the sixteen or seventeen hinder scales of the lower series keeled, and marked with a brown ring near their tip on the front half of the disk, and the three scales on each side of the vent with a similar transverse ridge: tail elongate, slender.

*a.* In spirits. Adult. India. Presented by General Hardwicke.

## 19. Phytolopsis.

Head moderate, rather depressed; crown shielded; lips swollen: frontals 3; anterior very small, rhombic; posterior small; loreal as large as posterior frontal; vertebral narrow, elongate; superciliary narrow; occipital plate large: temple covered with smooth

scales: rostral square, convex: anterior (5-5) labial occupying the front of the muzzle, very narrow, high; the hinder small, short, with two or three rows of scales above them: lower labial similar, but the hinder front one rather broader; the hinder one small, short, square: chin shields one pair, very large: body fusiform; scales not keeled, apparently smooth, but very minutely longitudinally striated: tail short, conical, tapering; subcaudal plate two-rowed.

1. The PHYTOLOPSIS. Phytolopsis punctata.

Greenish olive, with a yellow dot in the centre of many of the scales, forming together indistinct cross-bands: lips and lower part of the sides ($1\frac{1}{2}$ series of scales high) and under-side yellow.

*a*. In spirits. India. From Mr. Warwick's collection.

†† *The hinder labial large, like the others; scales keeled.*

## 20. URANOPS.

Head short, broad; crown shielded; occipital shields moderate: frontals 3, small; anterior triangular: nostrils sublateral, on upper edge of single shield: loreal 1, small: one high anterior and two square posterior oculars: labial moderate; the fourth larger, under the eye, and forming the edge of the orbit; the hinder larger, entire: eyes moderate, sublateral: scales large, truncated, very shortly keeled and deeply striated.

Uranops, *Fitz. S. R.* 25, 1843, not described. *Dum. & Bib. Erp. Gen.* 6, *ined.* Homalopsis sp., *Boie, Schlegel.*

1. The URANOPS. Uranops angulatus, *Fitz. Syst. Rept.* 25, 1843. Helicops angulatus, *Wagler, Syst. Amph.* 171. Col. angulatus, *Linn. Mus. Adolph.* i. 23, *t.* 15, *f.* 1. *Merrem, Beytr.* ii. 32, *t.* 6. Homalopsis angulata, *Boie, Isis*, xx. 551. *Schlegel, Phys. Serp.* 351, *t.* 13, *f.* 24, 25. Natrix aspera, *Wagler, Serp. Braz. t.* 13. Col. Surinamensis, *Shaw, Zool.* iii. 460, from *Scheuch. Ph. Sacr. t.* 630, *B. t.* 653, *f.* 3, *t.* 737, *f.* 3. *Seba*, ii. *t.* 24, *f.* 2, *t.* 59, *f.* 2.

Dark olive, with darker rhombic cross-bands; hinder part of upper lip, lower lip, lower part of sides and beneath white; scales large, very strongly and sharply keeled, truncated at the tip; head broad; eyes small; one large and two moderate posterior oculars;

occipital shield rather larger than the vertebral; fourth upper labial large under the eyes.

*a*. In spirits. Adult. Tropical America.
*b*. In spirits. Adult. Tropical America. From Parreyss' collection, Vienna.
" Uranops angulatus,' *Parreyss.*
*c*. In spirits. Young. Pale olive, with numerous broad lozenge-shaped cross-bands, the narrow part forming a rather irregular line across the belly. Tropical America. Presented by the Royal College of Surgeons.

### 21. Tachynectes.

Head moderate, depressed: frontals 3; anterior triangular, advanced between the nasals: eyes very small: scales ovate, truncated, strongly keeled: tail elongate.

Tachynectes, *Fitz. Syst. Rept.* 25, 1843, no character.

1. The Tachynectes. Tachynectes Leopardina, *Fitz. Syst. Rept.* 25, 1843. Dimades Leopardina, *Gray, Zool. Misc.* 65. Homalopsis Leopardina, *Schlegel, Phys. Serp.* 359, 65.

Red-brown, with five rows of darker spots placed in quincunx; paler beneath, with alternate darker spots: a pale streak from each eye, united behind, forming a collar.

Inhab. ——— ? Mus. Leyden.

### 22. Tropidophis.

Head rather depressed; crown shielded; occipital shields large: nostrils sublateral, on the upper edge of a single shield, with a groove beneath it: one high anterior and three posterior equal oculars: loreal single: labial shields moderate, uniform; fourth and fifth forming part of the orbit; hinder larger, undivided: eyes large, sublateral: body fusiform: scales keeled, ovate, and longitudinally striated: tail short, conical.

Like *Tropidonotus*, but anterior frontal and nasal shield single.

Tropidonotus sp., *Schlegel, Phys. Serp.*

1. The Chittee. Tropidophis Schistosus. Chittee, *Russell, Ind. Serp.* ii. *t.* 4. Coluber Schistosus, *Daud. Rept.* vii. 132. *Merrem, Tent.* 103. Tropidonotus Schistosus, *Schlegel, Phys. Serp.* 319, *n.* 13. Tropid. mœstus, *Cantor, Zool. Soc.* 1838, 54?

Lead-coloured; back with obscure paleish lines; lip, lower series of scales on the sides of the body and beneath white; scales slightly keeled, marked with a pale central line, rather rounded at the end; head elongate; eyes large; occipital shields very large, elongated behind; one large anterior and three small posterior oculars; the fourth and fifth upper labials moderate, equal, and both under the eye; nostril on slope of face, but is on a single plate, with a groove on the outer side.

*a—c.* In fluid. Madras. Presented by J. C. Jerdon, Esq.
*d.* In fluid. Ceylon. Presented by R. Templeton, Esq.
*e.* In spirits. India. Presented by Dr. P. Russell.
" Coluber, n. s., ex India Orient. Dr. Russell," *Shaw, MSS.*

### 23. Myron.

Head rather elongate; crown shielded; occipital shields large: nostrils sub-superior: frontals 3; anterior small, triangular, transverse, over top of rostral: anterior labial shields rather narrow; hinder broad, large: scales slightly keeled, minutely striated: eyes very small, over fourth labial: loreal small: two anterior and two or three posterior oculars nearly surrounding the eye: superciliary shields small.

Very like *Hypsirhina*, but scales keeled.

1. The Australian Myron. Myron Richardsonii.

Back with alternate olive and many black cross-bands; sides white-spotted; beneath white; ventral shield dark-edged, with dusky, central, longitudinal streaks.

*a.* In spirits. Not good state. N.-West Australia. Presented by Sir John Richardson, M.D.

Uranops severe, *Dum. & Bib. Erp. Gen. t.* 68, no description. The figures appear to represent a species allied to *M. Richardsonii.* The back is represented uniform blackish; sides and beneath yellowish; the front part of the side with narrow oblique cross-bands; the belly and under-side of the tail with broader cross-bands; the loreal shields square, and there is an anterior and a posterior ocular; the occipital plates are rather large, and the temple shielded. The country is not mentioned.

2. The Three-streaked Myron. Myron trivittatus.

Olive, minutely black-dotted; back with five very narrow continuous white lines, and between them five interrupted black

streaks; belly white, with two broad black streaks, formed of two large semicircular black spots on the front edge of each ventral shield; subcaudal shield black, with a narrow white edge; loreal shield small; oculars small, two anterior and three posterior, lower very small.

*a*. In spirits. India? Presented by the Zoological Society.

### 24. Helicops.

Head ovate, indistinct, shielded: frontal anterior trigonal, between the nasal plates; superciliaries small; occipital elongate; upper labials entire; loreal distinct: two anterior and two posterior oculars: body fusiform; scales (19 rows) truncated, polished, smooth, of middle of hinder part of back and tail keeled: tail tapering. American.

Helicops sp., *Wagler*, *Syst. Amph.* 170, 1830. *Fitz. S. R.* 25, 1843. Helicops, *Gray*, *Zool. Misc.* 65, 1842. Pseudoeryx sp., *Fitz. N. Class. Rept.* 55, 1826. Natrix sp., *Wagler*, *Serp. Braz.* 27. Anat., *Schlegel*, *Phys. Serp.* 353.

1. The Helicops. Helicops carinacaudus, *Wagler*, *Amph. t.* 7. *Fitz. S. R.* 25. Col. æneus, *Hemprich*, *Mus. Berlin.* Pseudoeryx æneus, *Fitz. N. Class. Rept.* 55, 1826. Homalopsis carinacauda, *Boie*, *Isis*, xx. 551. *Schlegel*, *Phys. Serp.* 350, *t.* 13, *f.* 18, 19. Coluber carinacaudus, *Neuwied*, *Beitr.* i. 302. *Abbild.* xi. *t.* 3.

Dark olive, paler beneath, darker on the edge of the plates: scales of the front and sides of body smooth, of the hinder part of back and tail strongly keeled.

*a*. In spirits. N. America. From the Leyden Museum.

### ††† *Hinder labial large, like others; scales smooth.*

### 25. Hypsirhina.

Head small, distinct; crown shielded: frontals 3; anterior transverse, small; vertebral and superciliary rather small; occipital moderate; loreal square; upper labial large, entire; seventh large: eye over the fourth or fourth and fifth labial: body fusiform; scales smooth; tail conical.

Hypsirhina, *Wagler*, *Syst. Amph.* 169, 1830. *Gray*, *Zool. Misc.* 65, 1842. *Fitz. S. R.* 25. Hypsiscopus, *Fitz. S. R.* 25,

1843. Homalopsis sp., *Boie, Isis*, 1827. *Schlegel, Phys. Serp.* Anat., *Schlegel, Phys. Serp.* 348.

§ *Eyes over the suture of the fourth and fifth labial shields; lower half of sides pale. Scales in* 19 *rows. Tail short.* Hypsiscopus.

1. The Lead-coloured Hypsirhina. Hypsirhina plumbea, *Wagler, Syst. Amph.* 170. *Gray, Zool. Misc.* 66. Homalopsis plumbea, *Kuhl, Boie, Isis*, 1827, 560. *Schlegel, Phys. Serp.* 347, *t.* 13, *f.* 12, 13. Hypsiscopus plumbeus, *Fitz. S. R.* 25.

Tail very short, thick: lead-coloured, beneath white, black-marbled.

Var. *Bornensis.* Purplish brown, with a black dorsal streak; beneath whitish; shields darkish edged.

*a.* In spirits. Adult. Borneo. From the Leyden Museum.

2. Hardwicke's Hypsirhina. Hypsirhina Hardwickii, *Gray, Illust. Ind. Zool. t. Zool. Misc.* 67. Homal. plumbea, *var., Schlegel*, 347.

Lead-coloured; back with three rows of small scattered black spots; the two last series of scales on each side white, lead-coloured at the base: scales in nineteen rows, minutely punctate, rather pale-edged: tail short, tapering: subcaudal plates whitish, blackish edged, forming a central streak: ventral shields whitish, lead-coloured at the base.

*a.* In spirits. Penang. Body 14½, tail 2½ inches. Presented by Gen. Hardwicke.

§§ *Eye over the fourth labial shield; lower part of side with a defined white streak.* Hypsirhina.

3. The Ular Aer. Hypsirhina Aer, *Wagler, Syst. Amph.* 170. *Fitz. S. R.* 25. Homalopsis Aer, *Boie, Isis*, 1827, 560. *Erp. Java*, Aer, *t.* 41, *ined. Schlegel, Phys. Serp.* 347, *t.* 13, *f.* 10, 11. Coluber *Oppell, Mus. Paris.* Coluber Pythonissa, *Daud. Rept.* vii. 107. Hydrus Enhydrus, *Schn. H. Amph.* i. 245. Enhydrus cæruleus, *Latr. Rept.* vi. 202, from *Russell*, i. *t.* 30. Homalopsis olivaceus, *Cantor, Proc. Zool. Soc.* 1838, 55. Hypsirhina trilineata, *Gray, Zool. Misc.* 66.

Lead-coloured; dark lateral streak narrow, formed by the outer edge of the ventral shields; beneath gray, minutely dotted: belly shields, with three longitudinal black streaks: head large, elongate; tail elongate, blackish, with a series of white spots on each side beneath: subcaudal plates forming three narrow lines, black-edged: scales in 23 series: larger scales when nearly dry covered with small irregular blister-like convexities. Body 25, tail 6 inches.

*a.* In spirits. Adult. Borneo. From the Leyden Museum, as "Homolopsis Aer, *Schlegel.*"
*b.* In spirits. Adult. India.
H. trilineata, *Gray, Zool. Misc.* 66.
*c.* In spirits. Half grown. India.
*d.* In spirits. India. From Colonel Cobbs's collection.

4. The Two-lined Hypsirhina. Hypsirhina bilineata, *Gray, Zool. Misc.* 66.

Lead-coloured; back with an indistinct pale streak on each side; beneath white; sides grayish white, with a black lateral streak formed by the dark outer edge of the ventral shields: head small: tail elongate, lead-coloured, with two obscure pale streaks above, white beneath, with three black lines formed by the edge of the shields: scales in 21 rows. Body 18, tail 4½ inches.

*a.* In spirits. Adult. China. Presented by W. Lindsay, Esq.
*b, c.* In spirits. Young. Pale brown, with two pale streaks: head with two white streaks united over the nose; lips, side and beneath white, with a narrow brown line on the edge of the abdominal shields: tail beneath white, with three narrow brown lines. India.
Hypsirhina furcata, *Gray, Zool. Misc.* 66.

A very large, very thick, fusiform specimen, is in the museum of the Zoological Society, named "Zenopeltes concolor, No. 491."

5. The Chinese Hypsirhina. Hypsirhina Chinensis, *Gray, Zool. Misc.* 66.

Lead-coloured, with a rather broad white streak along the lower part of each side, nearly two scales wide, dark lateral as wide as last series of scales: ventral shields lead-coloured, with a whitish hinder edge: scales in 23 series: tail short, compressed, whitish, clouded beneath.

*a.* In spirits. Adult. Body 13¾, tail 3 inches. China. Presented by John R. Reeves, Esq.

6. Bennett's Hypsirhina. Hypsirhina Bennettii, *Gray, Zool. Misc.* 67.

Above blackish gray, with a broad and three narrow black streaks on the nape; back with three series of irregular blackish spots; white side streak and three scales towards dark streak narrow, margined; beneath white; front and side edge of abdominal and subcaudal shields black, varied with a spot in the centre of the front margin of the former: scales in 20 rows: tail compressed (injured).

*a*. In spirits. China. With a large vesicular cavity formed by the skin on the right side of the neck, which appears to communicate with the lungs.

*b*. In fluid. China. Presented by J. S. Bowerbank, Esq.

## 26. Farancia.

Head distinct, rather depressed: frontals 3; anterior triangular, transverse; posterior 2, broad, bent down on the sides: vertebral plates broad, six-sided; superciliary narrow in front; occipitals elongate; nostrils sublateral, small, in the middle of a four-sided plate, with a line to the lower edge; one oblong four-sided anterior, two posterior oculars, the lower smallest: eyes over the suture of the third and fourth labial; the upper labial entire; the hinder large; the seventh largest and highest: body fusiform; scales rhombic, in 19 or 21 series, smooth: ventral shields rather narrow, rounded: tail conical; subcaudal plates two-rowed.

Farancia, *Gray, Zool. Misc.* 68, 1842. Hydrops sp., *Wagler, Syst.*

1. The Wampum Snake. Farancia fasciata. Hydrops Reinwardtii, *Gray, Zool. Misc.* 67, 1842. Homalopsis Reinwardtii, *Schlegel, Phys. Serp.* 357. Helicops abacurus, *Holbrook, N. Amer. Erp.* iii. 111, *t.* 26, 1842. Hydrops abacure, *Dum. & Bib. Erp. Gen. t.* 65. Wampum Snake, *Catesby, Carol. t.* 58. Vampun, *Lacep. Quad. Ovip.* ii. 279, from *Cat.* Coluber fasciatus, *Shaw, Nat. Misc.* viii. *t.* 266. *Zool.* iii. 463. Farancia Drummondi, *Gray, Zool. Misc.* 68.

Reddish brown, shining; beneath yellowish; sides and beneath with large square yellow and brown spots; middle of belly brown; tail veins short; lips and throat dark-spotted.

*a—c*. In spirits. Adult. New Orleans. From Mr. Sale's collection.

## 27. Hydrops.

Head small, distinct, rather depressed; frontal plates 3, small; anterior triangular, transverse; vertebral and occipital moderate; superciliary small; loreal none; one large anterior and two posterior oculars: eye over fourth labial: upper labial plates all simple; hinder large, high, the seventh largest and highest: body subcylindrical; scales rhombic, broad, smooth, truncated, polished, in fifteen series; ventral shield broad, rounded.

Hydrops, *Wagler*, *Syst. Amph.* 170, 1830. *Gray*, *Zool. Misc.* 67. *Fitz. S. R.* 25. Elaps sp., *Wagler*, *Serp. Braz.* Homalopsis sp., *Schlegel*, *Phys. Serp.*

1. The Hydrops. Hydrops Martii, *Wagler*, *Syst. Amph.* 170. *Gray*, *Zool. Misc.* 67. *Fitz. S. R.* 25. Hydrops triangularis, *Wagler*, *Syst. Amph.* 170. Homalopsis Martii, *Schlegel*, 356, *t.* 13, *f.* 19, 20. Elaps Martii and E. triangularis, *Wagler*, *Serp. Braz.* *t.* 2, *f.* 2, *t.* 2 *a*, *f.* 2, junior. ? Coluber Nicandri, *Merrem*, *Tent.* 97, from *Seba*, ii. *t.* 64, *f.* 2.

Scales in 15 series, truncated: blackish; body and tail with numerous red-brown rings.

Inhab. Brazil. Mus. Leyden.

## 28. Hygina.

Body elongate, slender, subcylindrical; scales broad, rhombic, smooth: ventral shields rather narrow, regularly rounded: head small; crown rather depressed, shielded; one anterior large and two posterior smaller ocular shields, lower hinder partly under the eyes; hinder labial plates large, seventh largest; loreal shield none: eyes small, over the fourth labial: anterior frontals 3; front one transverse, triangular: tail elongate, tapering; subcaudal plates two-rowed. America.

Hygina, *Gray*, *Zool. Misc.* 67, 1842.

1. The Hygina. Hygina fasciata, *Gray*, *Zool. Misc.* 67.

Blackish brown, with subalternating white cross-bands on the sides and beneath.

*a*, *b*. In spirits. Demerara. Presented by Lieut. Friend, R.N.
*c*—*f*. In spirits. Demerara.

### 29. Dimades.

Head distinct; crown shielded; frontal shields 3; anterior small, transverse; hinder small; loreal none; vertical, superciliaries and occipital plates large; mental small: nostrils very close together: eyes rather large, anterior, over the suture of the third and fourth labial: one anterior and two posterior oculars: upper labial plates entire; the seventh short, with a large temporal plate above it: body thick; scales broad, smooth, in fifteen rows: tail conical.

Dimades, *Gray, Zool. Misc.* 65, 1842. Helicops sp., *Wagler, Syst. Amph.* 171. Pseuderyx sp., *Fitz. N. Class.* 55. Pseuderyx, *Fitz. S. R.* 1843. Homalopsis sp., *Schlegel, Phys. Serp.* 353. Anat., *Schlegel, Phys. Serp.* 355.

1. The Dimades. Dimades plicatilis, *Gray, Zool. Misc.* 65. Col. plicatilis, *Linn. Mus. Adolph.* i. 23, *t.* 6, *f.* 1. *Seba, Thes.* i. *t.* 57, *f.* 5, ii. *t.* 53. *f.* 3. *Merrem, Beytr.* ii. 28, *t.* 5. *Scheuch. Ph. Sacra. t.* 653, *f.* 2, *t.* 662, *f.* 10? Homalopsis plicatilis, *Boie, Isis*, xx. 551. *Schlegel, Phys. Serp.* 353, *t.* 13, *f.* 21, 23. Helicops plicatilis, *Wagler, Syst. Amph.* 171. Bali, *Lacep. Quad. Ovip.* ii. 176, *t.* 9, *f.* 1. Cerastes plicatilis, *Laur.* 81. Elaps plicatilis, *Schneid. H. Amph.* 294. C. Natrix plicatilis, *Merrem, Tent.* 99. Pseuderyx Daudinii, *Fitz. N. Class. Rept.* 55. Pseuderyx plicatilis, *Fitz. S. R.* 25.

Body subcylindrical; scales square, with rounded angle, broad, smooth; back red brown, beneath yellowish; sides with a broad streak spotted on the edges; crown brown-spotted, with a dark-edged yellow temporal streak.

N. America, New Orleans. Mus. Strasburg.

Coluber serratus, *Herrmann.* Homalopsis plicatilis, *var., Schlegel, Phys. Serp.* 355. Dimades plicatilis, *var., Gray, Zool. Misc.* 65.

Reddish yellow: back, a streak on each side, and two rows of large spots beneath, black or bluish.

**** Frontals* 3; *anterior elongate, erect, between nasals. Head moderate, depressed; rostral rounded. Scales smooth.*

### 30. Fordonia.

Head dilated behind, crown shielded; frontal plates 3; anterior elongate, between the nasal; vertebral and occipital small; superciliary very small; loreal none; upper labial plates very large, few;

hinder one entire, with a plate above it: eyes small, over the third labial: body compressed; abdominal plates narrow, rounded; tail short; subcaudal plates two-rowed; lower labial small.

Fordonia, *Gray, Zool. Misc.* 67, 1842. Hydropsis, *Fitz. S. R.* 25, 1843, *no char.* Homalopsis sp., *Schlegel, Phys. Serp.*

1. The Fordonia. Fordonia leucobalia, *Gray, Zool. Misc.* 67. Homalopsis leucobalia, *Schlegel*, 345, *t.* 18, *f.* 8, 9. *Muller, Verh. Rept. t.* 8. Hydropsis leucobalia, *Fitz. S. R.* 25.

Scales in 25 series, smooth, rhombic: blue-black, polished, with many irregular series of angular white spots; belly white.

Inhab. Timor.

2. The Plain Fordonia. Fordonia unicolor.

Olive-brown, polished, nearly uniform: scales minutely brown punctured; ventral shields with a rather paler hinder edge.

*a.* In spirits. Borneo? Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

*b.* In spirits. Borneo. From Mr. Lowe's collection.

### 31. Gerarda.

Head moderate, rather depressed; rostral four-sided; frontal plates 3; anterior narrow, high between the nasals, dilated above; posterior moderate, close; superciliary small; vertebral moderate; occipital large, elongated behind; three anterior labial narrow, high; hinder broader; last largest, entire: eyes over the fourth plate; loreal plate, square: body subcylindrical: scales smooth, broad, rhombic; subcaudal plates rather broad, evenly rounded: tail conical; subcaudal plates two-rowed.

1. The Gerard. Gerarda bicolor.

Lead-coloured, white varied: lips (except rostral plate), chin, lateral streak 2½ scales wide, white; under part pale: scales rhombic, in 16 or 17 series: one small anterior and two small posterior oculars.

*a.* In spirits. West Indies. From Mr. Luna's collection.

### 32. Hipistes.

Head ovate, distinct, rather depressed; rostral shield six-sided, rounded; frontal plates 3; anterior narrow, erect, between the nasals; posterior, superciliary and other head shields small; loreal square: oculars 2, anterior and lower posterior rather large, verging

under the eye: eyes very small: labial rather broad; three hinder largest: body fusiform; scales elongate, lanceolate, flattened, smooth: ventral shields narrow, flat, angularly keeled on each side: tail short; apex acute, elongate, horny.

1. The Banded Hipistes. Hipistes fasciatus.

Pale slate-coloured; back with a series of truncated blackish spots; lower part of sides and beneath white; subcaudal plates dark at each end.

*a.* In spirits. Adult? West Indies. From Mr. Luna's collection.

**** *Frontal shields* 4; *anterior* 2, *square, like posterior. Scales smooth.*

33. Abastor.

Head indistinct, rather depressed; crown shielded: occipital large; vertebral elongate; frontal two pairs, four-sided, the anterior square smaller; rostral high, triangular, convex; nostrils sublateral, on a single shield; loreal none; oculars small, one anterior and two posterior: lips swollen; front labial small; hinder ones very large: eyes very small, over suture of third and fourth labial: temporal shields 3, in a single series: body subcylindrical; scales rhombic, smooth, polished: ventral shield rounded: tail short, tapering.

Known from *Coluber* by the nostril in a single shield.

Helicops sp., *Wagler, Syst. Holbrook.* Homalopsis sp., *Boie. Schlegel.*

1. The Striped Wampum. Abastor erythrogrammus. Helicops erythrogrammus, *Wagler, Syst. Amph.* 171. *Holbrook, N. Amer. Erp.* iii. 107, *t.* 25. Coluber erythrogrammus, *Daud. Rept.* vii. 93, *t.* 83, *f.* 2. *Merrem, Tent.* 117. Homalopsis erythrogrammus, *Boie, Isis*, 1827, 551. Homalopsis plicatilis, *var.*, *Schlegel, Phys. Serp.* 355. Trop. bipunctatus, part, *Schlegel, Phys. Serp.* 320.

Bluish black, with three longitudinal red lines; abdomen with a row of bluish black spots on each side; tail short, one-eighth the total length.

*a.* In spirits. N. America. Presented by the Zoological Society.

## 34. Raclitia.

Body cylindrical; scales smooth; ventral shields rather narrow: head small; crown shielded: frontal shields two pairs; front pair small, triangular; vertebral and superciliary small, broad; hinder labial shields entire; one loreal; one small anterior and one oblong posterior ocular: eyes small, over fourth shield: tail short, conical; subcaudal plate two-rowed: nostril in middle of shield, with a groove to the hinder edge: chin shields two pairs.

Raclitia, *Gray*, *Zool. Misc.* 67, 1842. "Ophoberophide," *Bibron.*

1. The Indian Raclitia. Raclitia Indica, *Gray*, *Zool. Misc.* 67. "Ophoberophide," *Bibron*, *MSS. B. M.*

Purplish brown, beneath pale: crown with a series of short, irregular, white cross-bands on each side: occiput with one or two very narrow, white, indistinct cross-bands.

*a*, *b*. In spirits. Adult. India. Presented by General Hardwicke.

## 35. Miralia.

Head short, small; crown shielded: frontal two pairs; anterior small, triangular? loreal none? one anterior and two posterior oculars; occipital plates large; upper labial simple; temples shielded: body slender, compressed; scales smooth, in 19 series: tail short, thick, conical.

Miralia, *Gray*, *Zool. Misc.* 67, 1842. Pelophis, *Fitz. S. R.* 25, 1843, *no char.* Brachyorrhos sp., *Boie*, *Isis*, 1827. *Reuss. Mus. Senkenb.* Homalopsis sp., *Schlegel*, *Phys. Serp.* 344.

1. The Miralia. Miralia alternans, *Gray*, *Zool. Misc.* 68. Brachyorrhos alternans, *Reuss. Mus. Senk. t.* 9, *f.* 3. Pelophis alternans, *Fitz. S. R.* 25. Homalopsis decussata, *Schlegel*, *Phys. Serp.* 344, *t.* 13, *f.* 14, 16.

Reddish, with alternate white and red-brown rings: neck with a white collar: muzzle with a white spot.

Inhabits Java. Mus. Leyden and France. Perhaps an abnormal variety of *Raclitia Indica.*

***** *Head moderate, depressed: frontal one pair, small, lateral; rostral high, erect, between nasal and frontals, angular.*

### 36. Ficimia.

Head moderate, rather depressed; crown shielded; rostral shield large, produced behind to the vertebral shield between the frontal ones; frontals one pair, small, far apart; lateral subtrigonal, occupying the place of a loreal shield; superciliary small, triangular; vertebral and occipital large; nasal triangular, over front labial; labial shields entire; nostril rather lateral, near anterior, with a distinct posterior groove; chin shields four pairs: eyes convex, small; pupil round: body subcylindrical; scales smooth, polished, rhombic, with the angle rounded; vertebral shield broad, rounded: tail tapering: subcaudal plates two-rowed.

In one of the specimens the rostral and first upper labial shield are united into one shield, on both sides.

1. The Ficimia. Ficimia olivacea.
Blackish olive: lips, chin and beneath pale yellowish.

*a.* In fluid. Nasal united with the first upper labial shields on each side. Mexico. From Mr. Hugo Finck's collection.

*b.* In fluid. Nasal separate from the first upper labial shield. Mexico. From Mr. Hugo Finck's collection.

### 37. Prosymna.

Head indistinct; forehead rounded; rostral broad, rather low, keeled in front, rounder above: frontals 2, large, four-sided, transverse, band-like, similar, hinder broadest; vertebral large, trigonal; occipital band-like, oblique: nasal plate sublateral, rather large between upper edge of rostral and outer edge of front frontals: loreal moderate: one anterior and one or two posterior oculars: labial shields few, high and broad; first smaller: eyes large, over the suture between second and third labial shield: superciliary triangular.
Calamaria sp., *Reinhardt, K. Dansk. Ved. Sel.* x. 1843, 238.

1. The Prosymna. Prosymna meleagris. Calamaria meleagris, *Reinh. K. Dansk. Sels.* x. 1843, 238, *t.* 1, *f.* 4, 6, head.
Bluish black; each scale with a subapical pale spot; beneath whitish.
Inhab. Guinea. Mus. Copenhagen.

D. *Head covered with small scales: tail with one row of shields below: abdominal shields broad, rounded, smooth: nostrils anterior, in a shield: scales granular, with longitudinal series of larger scales.* Xenodermina.

### 38. Xenodermus.

Head ovate, depressed, covered with small rather acute scales, with two pairs of small frontal plates just over the rostral in front; rostral small, triangular, concave in the centre: nostrils large, rather anterior, in the middle of a large plate, with a slight slit to the hinder edge: labial scales rather larger than the dorsal, the lower ones with a concavity in the middle of each scale: upper rostral plate broad, triangular, erect, concave, surrounded by small scales: eyes convex, rather large; pupil round: throat with small acute scales: body elongate, compressed, subpentangular; back covered with very small semicircular scales, with a row of larger, ovate, keeled scales on each side, and two or three rows of similar larger keeled scales over the vertebral line; the sides covered with moderate, ovate, keeled scales, rather larger beneath: the ventral shields transverse, rounded: tail elongate, rather compressed, subpentangular, tapering like the back above; subcaudal shield one-rowed, rounded.

This genus appears intermediate between the *Hydridæ* and the *Boidæ*. It has the general external appearance of the former, combined with many of the characters of the latter family, but I cannot find any appearance of spurs.

Xenodermus, *Reinh. Oversigten Videns. Sels. Forsk.* 1836. *Wiegm. Arch.* 111, 1837, 136. *K. Dansk. V. Sels.* x. 1843, 253. Gonionotus, *Gray, in Stokes's Australia, Appendix*, 5, 1846 (not *White*).

1. The Gonionote. Xenodermus Javanicus, *Reinh. K. Dansk. V. Sels.* x. 1843, 253, *t.* 2, *f.* 1—8. Gonionotus plumbeus, *Gray, in Stokes's Australia, App.* 5, *t.* 4.

Bluish gray; belly and beneath white. Length of body 9 inches, tail 4 inches = 13 inches.

*a.* In spirits. Java. Purchased in Rotterdam.

## Fam. IV. Boidæ.

The ventral shields narrow (except in *Bolyeria*), transverse, band-like, often six-sided; the hinder limbs developed under the skin, formed of several bones and ending in an exserted horny spur, placed one on each side of the vent. Tail short, generally prehensile. The pupil oblong, erect, except in *Tortrix*.

They live in marshy places: fixing themselves by the tail to some aquatic tree, they allow themselves to float, and thus entrap the animals which come to drink: they kill their prey by pressure. The spurs were first noticed by Dr. P. Browne (*Hist. Jam.* 1789, 461). Schneider (*Hist. Amph.*) again observed them in 1792, and Dr. Russell figured them in 1795.

Constrictores and Anguiformes pars, *Oppell*, *Rept.* 1811. Colubrini pars, *Boie*, *Isis*, xx. 510, 1827. Boidæ, *Gray*, *Ann. Phil.* 1825, 209. *Zool. Misc.* 41, 1840. Boidæ and Erycidæ, *Bonap. Acad. Roy. Turin*, 1840. Ilysioidea and Pythonoidea, *Fitz. N. Class. Rept.* 26, 27, 1826. Serp. Macrostomata, Isodonta, and part Holodonta, *Muller*, *in Tiedem & Treviran. Zeitsch. fur Phys.* 1832, iv. 263. Serp. Phenopodes, *Meyer*. Ophidiens azemiophides, ou Serpents non Vénéneux Auriformes ou Pythoniens, *Dumeril & Bib. Erp. Gen.* vi. 337, 380. Colubrinia aplepia, *Rafin. Anal. Nat.* 77, 1815. Fam. Boas, *Schlegel*, *Phys. Serp.* Saurophidia pars, *fam.* Cylindrophes, Gongylophes, Centrophes and Pythophes, *Fitz. Syst. Rept.* 14, 1846.

### *Synopsis of the Genera.*

I. *Tail prehensile, strong. Head distinct: muzzle truncated.*

A. *Subcaudal plate two-rowed; intermaxillary or incisive teeth distinct; superciliary bone distinct.* Old World. Pythonina.

1. Morelia. Upper and lower labial shields deeply pitted; muzzle with symmetrical shields.
2. Python. Upper and lower labial shields deeply pitted; muzzle and forehead with symmetrical shields; nostrils vertical.
3. Hortulia. Upper and lower labial shields deeply pitted; muzzle and forehead with symmetrical shields; nostrils lateral.

4. LIASIS. Upper and lower labial shields pitted; muzzle and space between the eyes shielded.

5. NARDOA. Lower labial shields pitted; crown with eleven symmetrical shields.

B. *Subcaudal plates entire, one-rowed; intermaxillary or incisive teeth none; superorbital line none.*

a. *Scales smooth; labial shields pitted.*

6. EPICRATES. Forehead with symmetrical shields; crown scaly. America.

7. XIPHOSOMA. Forehead and crown scaly; muzzle with regular shields; labial plates short and all pitted. America.

8. CORALLUS. Forehead and crown scaly; muzzle with regular shields; labial shields short, hinder ones pitted. America.

9. SANZINIA. Forehead and crown scaly; muzzle with regular shields; labial shields elongate, prismatic. Madagascar.

10. CLIFTIA. Forehead and crown scaly; muzzle with regular shields; labial shields broad, low. Asia.

b. *Scales smooth: labial shields smooth, not pitted.*

11. BOA. Crown covered with scales; nostrils lateral, between two plates. America.

12. PELOPHILUS. Crown covered with irregular plates; nostrils lateral, between two scales. America.

13. EUNECTES. Crown covered with irregular shields; nostrils vertical, between three plates. America.

14. CHILABOTHRUS. Crown covered with regular shields; nostrils lateral, between three scales. Madagascar.

c. *Scales keeled; labial shields not pitted; nostrils between two plates.* America.

15. UNGALIA. Head covered with symmetrical shields.

d. *Scales keeled; labial shields not pitted; nostrils in a single plate.* Asia.

16. ENYGRUS. Head covered with small irregular shields; nostrils in a single plate. Asiatic Islands.

17. CASAREA. Head scaly; muzzle covered with symmetrical shields; nostrils in a single plate?

18. BOLYERIA. Head covered with symmetrical shields; nostrils in a single plate.

II. *Tail very short, slightly or not prehensile. Head indistinct, short.*

a. *Head covered with scales; pupil oblong; scales convex; subcaudal shield one-rowed; intermaxillary teeth none; supra-orbital bone none.* Erycina.

19. CUSORIA. Muzzle rounded; ventral and subcaudal plates narrow; scales ovate, of body and tail smooth.

20. GONGYLOPHIS. Muzzle wedge-shaped; jaws equal; head with small keeled scales; scales of back keeled; body fusiform.

21. ERYX. Muzzle wedge-shaped; upper jaw largest; head with small scales; scales of back smooth, of hinder part of body keeled.

22. CLOTHONIA. Muzzle wedge-shaped; upper jaw largest; scales smooth.

b. *Head shielded; pupil round.*

* *Nostrils in a single shield; eyes surrounded by shields; intermaxillary teeth none.* Cylindrophina.

23. CYLINDROPHIS.

** *Nostrils between two shields; eyes surrounded by small scales.* Charinina.

24. CHARINA.

*** *Nostrils between two shields; eyes in a single shield; intermaxillary teeth distinct* Tortricina.

25. TORTRIX.

A. *Tail strongly prehensile; spurs large, exposed. Head elongate, distinct; muzzle truncated. Eyes nocturnal; pupil oblong, erect.*

a. *Subcaudal plates two-rowed; intermaxillary or incisive teeth distinct; super-orbital bone distinct.* Old World. Pythonina.

Pythonina, *Gray, Zool. Misc.* 1840. Pythoniens, Holodontes, Pythonides, *Dum. & Bib. Erp. Gen.* vi. 381, 1846. Pythophes, *Fitz. Syst. Rept.* 24, 1843. Constrictores pars, *Oppell, Rept.* 1811. Python, *Daud. Rept.* v. 230, viii. 384. *Cuvier, R. A.*

† *Crown of head with small scale-like plates.*

1. Morelia.

Head shields small, scale-like; frontal plates distinct, three pairs; vertical plate small; rostral shield single, with a pit on each side; three front upper and the hinder lower labial plates pitted: nostrils lateral in a single plate, with a groove beneath: eyes lateral; pupil elliptical, erect: scales smooth; subcaudal plates two-rowed. Australia.

Morelia, *Gray, Zool. Misc.* 43, 1842. Echidna sp., *Merrem, Tent. Dum. & Bib. Erp. Gen.* vi. 383. Python, *Wagler, Syst. Amph.* 168, 1830. Python sp., *Cuvier, R. A. Fitz. N. Class. R.* 54. *Syst. Rept.* 24. *Schlegel, Phys. Serp.*

* *Vertical plate indistinct.*

1. The Diamond Snake. Morelia spilotes. Coluber spilotes, *Lacep. Ann. Mus.* iv. 194 (1802). Echidna spilotes, *Merrem, Amph.* 150. Python spilotes, *Gray, King's Voy.* ii. Snake, Nos. 1 and 10, *White, Voy. N. S. Wales*, 259. Australian Snake, *Shaw, Zool.* iii. 505, and vignette on title-page. Python punctatus, *Merrem, Amph.* 90. *Fitz. N. Class.* 54. *Boie, Isis*, xx. 526. Python Peronii, *Cuvier, Mus. Paris*, 1827. *Lesson, Ann. Sci. Nat.* xiii. 391. *Wagler, Icon. Amph. t.* 1. *Schlegel, Phys. Serp.* 421, *t.* 15, *f.* 11, 12. *Fitz. Syst. Rept.* 24. Serpens arabica, *Seba*, ii. 108, t. 103, *f.* 1? 1734. Vipera argus, *Klein. Tent.* 21 (1755). Coluber argus, *Linn. Syst. Nat.* i. 389, 1758. *Daud. Rept.* vi. 312. Natrix argus,

*Merrem*, 90 and 126. Morelia argus, *Dum. & Bib. Erp. Gen.* 385. Morelia punctata, *Gray, Zool. Misc.* 43.

Bluish black, very irregularly yellow (white in spirits), spotted, a spot on the centre of each scale, forming a group of five or six together, or a kind of tied blotch; occiput with an angular band.

*a*. Stuffed. Adult. Australia. From Mr. Turner's collection.
*b*. Stuffed. Adult. Australia.
*c*. Stuffed. Adult. Australia.
*d*. Stuffed. Adult. Australia.
*e*. Stuffed. Adult.

** *Vertical plate distinct.*

2. The Carpet Snake. Morelia variegata, *Gray, Zool. Misc.* 43, 54. M. argus, var. *c*, *Dum. & Bib. Erp. Gen.* vi. 386, 389.

Whitish (in spirits), with numerous irregular black-edged olive cross-bands, with irregular serrated and torn edges: head olive, varied with two or three white spots in the centre of the crown, and a broad short band behind each eye.

*a*. In spirits. Half grown. Port Essington, N. Australia. From Mr. Gilbert's collection.
*b*. In fluid. Adult. Port Essington. Presented by J. B. Jukes, Esq.

Var. 1. With a continued pale streak down the lower part of each side of the neck.

*c—e*. In fluid. Nearly adult. Swan River. From Mr. Dring's collection.
*f*. In fluid. Houtman's Abrolhos. From Mr. Gilbert's collection.
*g*. In fluid. Swan River. Purchased.
*h*. Stuffed. Adult. Boston Island, S. Australia. Presented by Hon. Capt. G. Grey. Called *Mood-lud-nar*.
*i*. Stuffed. Adult. S. Australia. Presented by Hon. Capt. G. Grey.
*j*. Skin. Half grown. Swan River. From Mr. Mather's collection.
*k*. Stuffed. Half grown. Australia.
*l*. In spirits. Very young. Pale brown, rather darker varied and much compressed. Port Essington. Presented by the Earl of Derby.

†† *Crown of head shielded to behind the eyes.*

2. PYTHON.

Head covered with scales; forehead and muzzle with symmetrical shields to behind the eyes; rostral and upper and lower labials pitted: nostrils perpendicular, vertical, between two unequal sized plates, the hinder sometimes divided by a groove into two: eyes lateral; pupil linear, erect: scales smooth; subcaudal plates two-rowed.

Python, *Gray*, *Ann. Phil.* 1825, 209. *Zool. Misc.* 44, 1840. Constrictor sp., *Wagler*, *Syst.* 168, 1830. Python, *β. Dum. & Bib. Erp. Gen.* vi. 417, not *Wagler.* Python sp., *Daud. Rept.* vi. 226, viii. 384, *Cuvier. Merrem. Fitz.* 1826. Constrictor and Asterophis, *Fitz. Syst. Rept.* 24, 1843, *no char.*

They place their eggs in a group and cover them with their body: this circumstance was first noticed by Mr. Bennett, who gives a figure of the snake on its eggs as a vignette. M. Lamare Picquot communicated this fact to the Academy of Sciences, with some other remarks on the habits of serpents; but M. Dumeril, in his report on this paper, read on the 19th of March, 1832 (see *Ann. Sci. Nat.*, D. S., iv. 36), discredited his account; and though it was re-stated by the author, M. Dumeril concluded a letter with these words: "Ensuite qu'ils n'ont pas besoin et qu'ils leur serait inutile de couver leurs œufs." (*l. c.* 36, *note*). The Python in the Garden of Plants at Paris has proved the correctness of Mr. Bennett's and Lamare Picquot's observations.

* *Four front upper labial plates pitted; frontal plate simple.*
Constrictor, *Fitz.*

1. The ULAR SAWA. Python reticulatus, *Fitz. N. Class.* 54. *Gray, Zool. Misc.* 44. *Dum. & Bib. Erp. Gen.* vi. 426. Boa reticulata, *Schn. Amph.* ii. 261. *Daud. Rept.* v. 116. Python Schneiderii, *Merrem*, *Tent.* 89. *Schlegel*, *P. S.* ii. 415, *t.* 15, *f.* 5—7 (part). *Guerin*, *Icon. t.* 21, *f.* 1. Boa rhombeata, *Schneid. Amph.* ii. 266? B. amethystina, part, *Schneid. Amph.* ii. 259. *Daud. Rept.* v. 231. B. phrygia, *Shaw*, *Zool.* iii. 348, *t.* 97. *Russell*, *Ind. Serp.* Coluber Javanicus, *Shaw*, *Zool.* ii. 441. *Kuhl*, *Isis*, 1825, 473. C. Javensis, *Fleming*, *P. Z.* 291. B. constrictor, *var.*, *Latr. Rept.* iii. 135. Python Iles de Sonde, *Cuv. R. A.* ii. 681. Ular Sawa, *Wurmb. Verh.* iii. 391. La Jaune et Bleue, *Lacep. Quad. Ovip.* ii.

251. L'oularsawa, *Bonnat. Ophiol.* 26. Constrictor Schneiderii, *Wagler, Syst. Amph.* 168. *Fitz. Syst. Rept.* 24. *Seba, Thes.* i. *t.* 62, *f.* 2; ii. *t.* 79, *f.* 1, *t.* 80, *f.* 1.

The smaller of the two nasal plates without any longitudinal groove; the frontal plate entire (or rarely divided into two), and not followed by other large symmetrical plates; a single supra-ocular on each side; rostral, with two front pairs of upper and six or seven hinder pairs of lower labial shields pitted; head with a narrow longitudinal brown stripe.

*a.* In spirits. Head of half grown. India. Presented by General Hardwicke.
*b.* In spirits. Young. Borneo. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.
*c.* In spirits. Young. Borneo. From Mr. Lowe's collection.
*d.* In spirits. Half grown. India. Presented by General Hardwicke.
*e.* Stuffed. Half grown. India.
*f.* In spirits. Adult. India? Borneo. Presented by Capt. Sir Edward Belcher, K.C.B., R.N.
*g.* In fluid. Adult. India. From Mr. Gardener's collection.
*h.* In spirits. Half grown; bleached. India? Old collection. "Coluber molurus, *Shaw, Brit. Mus.*

** *Two pairs of front upper and three hinder lower labial shields pitted; frontal plate double.* Asterophis, *Fitz.*

2. The Rock Snake. Python molurus, *Gray, Zool. Misc.* 44. Coluber molurus, *Linn. S. N.* ii. 225. *Seba*, i. *t.* 37, *f.* 1. *Shaw, Zool.* iii. 458, *t.* 116. *Daud. Rept.* vi. 239. C. Boaformis, *Shaw, Zool.* iii. 511. Python de la Sonde, *Lesson, Belanger, Voy. Rept.* 316. Asterophis tigris, *Fitz. Syst. Rept.* 24. B. cinerea, *Schn.* 270. B. castanea, *Schn.* 272. B. albicans, *Schn.* 274. B. ordinata, *Schn. Amph.* ii. 260. *Daud. Rept.* v. 252 = *Seba, Thes.* i. *t.* 37, *f.* 1. B. orbiculata, *Schn. Amph.* 276. Python bivittatus, *Schlegel, Phys. Serp.* ii. 403, *t.* 15, *f.* 1—4. *Abbild.* 55, *t.* 17, *f.* 11 (*Javanensis*), not *Kuhl.* P. Poda, *Boie.* P. Javanicus, *Kuhl. Fitz. N. Class.* 54. P. Tigris, *Daud. Rept.* v. 241, *t.* 64, *f.* 1. *Gray, Ann. Phil.* 1825, x. 209. *Fitz. N. Class.* 54. *Merrem*, 89. P. Bora, *Russell, Ind. Serp. t.* 39. *Daud. Rept.* v. 236. C. Pedda Poda, *Russell, Ind. Serp.* i. *t.* 22—24. Constrictor (Pedda Poda), *Wagler, Syst.* 168. Le Molure, *Daub. Lacep. Quad. Ovip.* ii. 218, *t.* 10, *f.* 1.

The front and hinder lower labial shields moderately wide, equal; the smallest of the two nasal plates with a longitudinal groove; the frontal plate divided into two longitudinally, and followed by other symmetrical plates; one supra-ocular on each side; rostral plates, with two front pair of upper and three hinder pair of lower labial shields pitted.

*a*. In spirits. Adult; partly bleached. India. Old collection.
*b*. In spirits. Adult. From Mr. Gardener's collection.
*c*. Stuffed. Adult. India.
*d*. In spirits. Adult; partly bleached. India. Presented by the Royal College of Surgeons.
*e*. In spirits. Young. India. Presented by General Hardwicke?
*f*. In fluid. Adult. India, Madras. Presented by J. C. Jerdon, Esq.
*g*. In fluid. Adult. India. From Major Hogg's collection.
*h*. In spirits. Adult; nearly bleached. India. Old collection.
*i*, *j*. Stuffed. Adult. Singapore.

### 3. Hortulia.

Head covered with irregular scales; front of forehead and muzzle shielded; frontal plates three pairs; rostral and upper and lower labials pitted: nostrils lateral, between two unequal plates: eyes lateral; pupil linear, erect: scales smooth; subcaudal plates two-rowed. Africa.

Hortulia and Python, *b*, *Gray*, *Zool. Misc.* 43, 1842. Heleionomus? *Gray*, *Zool. Misc.* 43, 1842. Python, A, *Dum. & Bib. Erp. Gen.* 400. Enygrus sp., *Wagler*, *Syst. Amph.* 166, 1830, not *Dum. & Bib.* Constrictor sp., *Wagler*, 168. Python sp., *Daud.*, *Cuvier*, *&c.* Boa sp., *Schneider*, *&c.*

* *Two pairs of front upper labials pitted; supra-ocular shields 2 or 3.*

1. The Natal Rock Snake. Hortulia Natalensis, *Gray*, *Zool. Misc.* 44. Python Natalensis, *A. Smith*, *S. Afric. Quart. Jour.* 64. *Ill. Z. S. Africa*, *t.* 9. *Dum. & Bib. Erp. Gen.* vi. 409.

Two front pairs of upper labial shields pitted; the internasal larger than the front nasals; one pair of prefrontals; three supra-ocular shields on each side. Olive; back with irregular, unequal, black-edged, yellow cross bands and spots: head with an arrow-

shaped spot; side of face and beneath yellow, with a dark streak from the back of the eye.

*a*. Stuffed. Adult. Port Natal, South Africa. From Dr. Andrew Smith's collection.
*b*. Stuffed. Adult. S. Africa. From Mr. Warwick's collection.
*c*. Stuffed. Adult; bad state. S. Africa?
Heleionomus variegatus, *Gray, Zool. Misc.* 43.
*d*. Stuffed. Young. South Africa, Natal. From Dr. Krauss' collection.

2. The Guinea Rock Snake. Hortulia Sebæ. Coluber Sebæ, *Gmelin, S. N.* iii. 1118 (from *Seba*, ii. *t.* 19, *f.* 1, *t.* 27, *f.* 1, *t.* 99, *f.* 2). *Daud. Rept.* vi. 238. *Dum. & Bib. Erp. Gen.* vi. 400, *t.* 61. Col. speciosus, *Bonat. E. M.* 17 (from *Seba*, ii. *t.* 99, *f.* 2). Boa hieroglyphica, *Schneid. Amph.* ii. 266. *Merrem, Tent.* 90. B. constrictor, *var.* f, *Latr. Rept.* iii. 135. *Daud. Rept.* v. 197. Constrictor bivittatus, *Wagler, Syst.* 1, 68. Python bivittatus, *Kuhl. Beitr.* 94. P. bivittatus, *var.*, *Schlegel, Phys. Serp.* 408. Serpent, *Bosman. Guinea*, 395. Serpent Geant, *Adanson, Seneg.* 71, 152.

The ten pairs of front lower labial shields very narrow, narrower than the hinder ones; internasal plates shorter than the front nasal; two small prefrontals (sometimes united) on each side, a frontal divided in two longitudinally; three pairs of parietals, less and less developed from the front backwards; two supra-oculars on each side; rostral with two pits; two front pairs of upper labials pitted.

*a*. In spirits. Young. W. Africa, Ashantee. From the Leyden Museum.
" Python bivittatus, *var.*, *Schlegel.*"
*b*. In spirits. Young. W. Africa, Gold coast. From Mr. Rich's collection.
*c*. In fluid. Adult. W. Africa, Gambia. Presented by the Earl of Derby.

** *Four pairs of front upper labials pitted; supra-ocular plate single; lower labial shields broad, four.*

3. The Royal Rock Snake. Hortulia regia. Boa regia, *Shaw, Zool.* iii. 347, *t.* 96 (from *Seba*, i. *t.* 62, *f.* 1, and *t.* 102.) *Merrem*, 88. *Fitz. N. S. Rept.* 54. Python regius, *Dum. & Bib. Erp. Gen.* vi. 413. Boa constrictor, *var.* d, *Latr. Rept.* iii. 134. *Daud. Rept.* v. 196. Enygrus (regius), *Wagler, Syst.* 167. Cen-

chris regia, *Gray, Griffith, A. K.* ix. Python Bellii, *Gray, Zool. Misc.* 44, young.

Internasal plates nearly as long as the frontonasal; four prefrontals on each side; a frontal divided longitudinally into two, and followed by small not symmetrical plates; one large supra-orbital plate on each side; rostral with two pits; four front upper pairs of labials one-pitted; front eight pairs of lower labial shields broad, high, rest shallow. Black; middle of the back with a series of oblong longitudinal white spots, largest in front: sides with a series of very large white spots, with one or two oblong black spots on their upper part: head black, a streak over the nostril and the top of the eyes, another from the lower edge of the eye; the lips, chin and beneath white.

*a*. In spirits. Young. Western Africa, Gambia. From Mr. Rendal's collection.
Python Bellii, *Gray, Zool. Misc.* 44.
*b*. In spirits. Half grown. W. Africa. Presented by Sir James Mc'Grigor.
*c, d*. In fluid. Adult. W. Africa, Gambia. Presented by the Earl of Derby.
*e*. In fluid. Adult. W. Africa, Gambia. Presented by the Earl of Derby.
*f*. In fluid. Young. W. Africa, Gambia. From Mr. Rendal's collection.
*g*. Stuffed. Young. W. Africa.

Python Houtheynii, *Daud. Rept.* v. 254, viii. 384, only rest of the description of Houttyns. *Tjerri tjerri slang, Schneid. Amph.* ii. 219.

### 4. Liasis.

Head scaly, with symmetrical shields on the muzzle to between the eyes: vertical plate single: nostrils lateral, in a single shield, with a groove behind: eyes lateral; pupil oblong, erect: upper and lower labial shields pitted: scales smooth: subcaudal plates two-rowed.

Liasis, *Gray, Zool. Misc.* 44, 1842. *Dum. & Bib. Erp. Gen.* vi. 431. Python sp., *Daud. Rept.* v. 26.

* *Rostral plate with two pits; side of face with small scales.*
Simalia.

1. The Liasis. Liasis amethystinus, *Gray, Zool. Misc.* 44. *Dum. & Bib. Erp. Gen.* vi. 432. Boa amethystina, *Schneid. Amph.*

ii. 254. *Denk. Akad. Münch.* vii. *t.* 7. Python amethystinus, *Daud. Rept.* v. 230. *Merrem*, 89. *Schlegel, Phys. Serp.* 178, 419, *t.* 15, *f.* 8, 10. Constrictor amethystinus, *Boie, Isis*, xx. 516.

Frenal plates 8-8 or 12-12, in a double series; preocular shields 2 or 3; post-ocular 3 or 4; rostral with two deep pits; back of the upper, the four front pairs of the upper, and the six or seven pairs which precede the four or five last of the lower labial shields, pitted.

Inhab. New Ireland. Mus. Paris.

2. Macklot's Liasis. Liasis Macklotii, *Dum. & Bib. Erp. Gen.* vi. 440. Python amethystinus, *var.*, *Schlegel, Phys. Serp.* 420.

Frenal plates 1-1; one preocular and two post-oculars; rostral shield with two indistinct pits; two front pairs of the upper, and the four or five hinder pairs preceding the three or four last lower labial shields, pitted.

Inhab. Timor and Samao. Mus. Leyden.

** *Rostral not pitted; side of face with small scales.* Liasis.

3. Children's Liasis. Liasis Childrenii, *Gray, Zool. Misc.* 44. *Dum. & Bib. Erp. Gen.* vi. 438.

Frenal plates two on each side, with two rows of granular scales beneath them; one preocular and four post-ocular shields; rostral without any pits; the front pair of upper labials with a slight pit on the outer upper edge, and the four pairs which precede the three last lower labials pitted. Purplish brown: back with a central series of oblong, transverse, dark spots: sides with two series of roundish black spots, beneath white: upper lip with a dark streak to the angle of the mouth.

*a.* In spirits. Adult. N. W. Australia.

*b.* In spirits. Adult. N. W. Australia, Port Essington. From Mr. Dring's collection.

*** *Rostral plate not pitted; side of face without any small scales.* Lisalia.

4. The Lisalia. Liasis olivacea, *Gray, Zool. Misc.* 45, 54. *Dum. & Bib. Erp. Gen.* vi. 442.

Frenal plates 2-2; one preocular and three post-ocular shields; rostral not pitted; the first pair of upper labials with a small pit on

the outer upper edge; the four or five hinder pair of the lower preceding the three last pair pitted. Pale olive-green (in spirits): upper lip and beneath pale yellowish: occiput scaly, with one pair of larger shields.

*a*. In spirits. Adult. N. Australia, Port Essington. From Mr. Gilbert's collection.

*b*. Stuffed. N. Australia, Port Essington. From Mr. Gilbert's collection.

*c*. In spirits. Adult. Sir Charles Hardy's Island. Presented by J. B. Jukes, Esq.

### 5. Nardoa.

Head scaly; muzzle regularly shielded to between the eyes, without any anterior frontals: nostrils lateral, in a single plate: eyes lateral; pupil elliptical, erect: upper labial shield flat; hinder lower labial pitted: scales smooth: subcaudal plates two-rowed.

Teeth and shields of a *Python*, not a *Tortrix* as believed by M. Schlegel.

Nardoa, *Gray, Zool. Misc.* 45, 1842. *Dum. & Bib. Erp. Gen.* vi. 444. Tortrix sp., *Schlegel, Phys. Serp.* Bothrochilus, *Fitz. Syst. Rept.* 24, 1843, *no char.*

* *Hinder frontal very large, front one small; rostral much depressed.*

1. The Nardoa. Nardoa Schlegelii, *Gray, Zool. Misc.* 44. *Dum. & Bib. Erp. Gen.* v. 447. Tortrix Boa, *Schlegel, Phys. Serp.* ii. 22. *Abbild.* 45, *t.* 13. Bothrochilus Boa, *Fitz. S. R.* 24.

Black and white ringed; three penultimate pairs of lower labials pitted; loreal scales small; anterior ocular single, posterior two.

Inhab. New Ireland. Mus. Paris, one specimen.

** *Frontals moderate; middle largest.*

2. Gilbert's Nardoa. Nardoa Gilbertii, *Gray, Zool. Misc.* 45, 54. *Dum. & Bib. Erp. Gen.* vi. 446.

Pale (in spirits): back with five longitudinal series of dark olive spots, which are more or less confluent, forming cross bands, closer together on the hinder part of the body, appearing olive with irregular whitish lines: head with a black streak above the lip through the eye to the side of the neck: head-shields brown, with a

black spot: loreal shield square: anterior ocular large; posterior oculars 3, small: inter-loreal scales 2, small. The front of the body has a narrow longitudinal streak on each side, between the spots.

*a.* In spirits. N. Australia, Port Essington. From Mr. Gilbert's collection.

B. *Subcaudal plates entire; intermaxillary or incisive teeth none; supra-orbital bone none; scales smooth or keeled; head-scales subsymmetrical.*

Boa and Corallus, *Daud.* Constrictores pars, *Oppell.* Pythoniens, Aproterodontes, Boæides, *Dum. & Bib. Erp. Gen.* vi. 450, 474. Centrophes, *Hempr. Fitz. Syst. Rept.* 24, 1843.

a. *Scales smooth; labial shields pitted.*

6. Epicrates.

Head covered with scales, and with shields on the front half; superciliary shield distinct: one large anterior and four small posterior oculars: labial shields flat, short, slightly pitted on each side; loreal shield large, over labial: nostrils lateral, between three plates and internasal and two nasals: eyes lateral; pupil elliptical, erect: body fusiform: scales flat, smooth: subcaudal plates one-rowed: spur of the males stronger than of the females.

Epicrates, *Wagler, Syst. Amph.* 168, 1830. *Gray, Zool. Misc.* 44, 1842. *Dum. & Bib. Erp. Gen.* vi. 552. *Fitz.* Cenchris sp., *Linn. S. N. ed.* 7, 35. *Gronov. Mus. Ichth.* ii. 68. *Gray, Ann. Phil.* 1825, x. 209. *Griffith, A. K.*, not *Wagler, Amph.* 175, 1830. Eunectes sp. and Enygrus sp., *Wagler, Syst. Amph.* 167, 166, 1830. Boa sp., *Fitz.*, 1826.

* *Orbit with a complete circle of scales.*

1. The Pale-headed Epicrates. Epicrates angulifer, *Bibron, Sagra. H. N. Cuba, t.* 25. *Dum. & Bib. Erp. Gen.* vi. 561. C. angulata, *Bibron in Mus. Zool.* Boa sp., *Gundlach, Wiegm. Arch. N.* i. 361.

Head without dark streaks: the frontonasal plate with a transverse row of four anterior frontal plates: orbit with a complete circle of scales: scales of the middle of the back as small as those of the sides.

*a, b.* In spirits. Adult. Hayti (R. Twining, Esq.) Presented by the Zoological Society.

** *Eyes immediately over the labial shield; orbital circle of scales incomplete.*

† *Face flattened; head-shield rather large.*

2. The Aboma. Epicrates Cenchria, *Gray*, *Griffith*, *A. K.* ix. *Wagler*, *Syst.* 168. *Gray*, *Zool. Misc.* 42. Boa Cenchria, *Linn. Mus. Adolph.* ii. 42. *S. N.* i. 274. *Schlegel*, *P. S.* ii. 385, *t.* 14, *f.* 3—5. *Neuw. Abbild. t. Daud. Rept.* v. 132, *t.* 62, *f.* 2. *Merrem*, *Ann. Wett.* ii. 51, *t.* 9. *Seba*, *Thes.* ii. *t.* 28, *f.* 2, *t.* 54, *f.* 3, young. B. annulifer, *Daud. Rept.* v. 202, *t.* 63, *f.* 3. *t.* 88, *f.* 1, *t.* 98, *t.* 56, *f.* 1, young, *t.* 62, *f.* 1. B. Cenchris, *Gmelin*, *S. N.* iii. 1083. *Dum. & Bib. Erp. Gen.* vi. 555. B. constrictor, *var.*, *Latr. Rept.* iii. 134. B. maculata, *Guild. MSS. Brit. Mus.* Coluber dubius, *Gmelin*, *S. N.* 1086, from *Seba*, ii. *t.* 98, *f.* 1. C. bitix, *Bonnat*, *E. M.* 22. Boa lateristriga, *Boie*, *Isis*, xx. 515, 1827. *Erp. Java*, *t*, 26, jun. B. ternatea, *Latr. Rept.* iii. 152? Eunectes (lateristriga), *Wagler*, *Syst.* 167. E. aboma, *Cuv. R. A.* ii. 67. Cenchris murina, *Gray*, *Ann. Phil.* 1825, x. 209. B. flavescens, &c., *Bodd. N. Act. C. Leop.* vii. 18, *n.* 7. "B. ocellata, *Oppell*, *Mus. Paris.* Enygrus (ocellatus), *Wagler*, *Syst. Amph.* 167." *Gray*, *Griffith*, *A. K.* ix. 97.

Head with five dark streaks on the top and sides: back with large narrow rings: sides with two series of black spots: scales of the vertebral line broader than those of the sides: the frontonasal plate with a cross row of three anterior frontal shields: orbit with an incomplete ring of scales.

*a*. In spirits. Adult; bleached. Old collection.
Boa Cenchria, *Shaw*, *Cat.*

*b*. In spirits. Young. W. Indies. Presented by Mrs. W. P. Mauger.

*c—e*. In spirits. Young. Trinidad. From Rev. L. Guilding's collection.
Boa maculata, *Guilding*, *MSS.*

*f*. In spirits. Young. Loreal shield short, high; dorsal ring with a central spot. Chagres. From H.M.S. Chanticleer.

*g*. In fluid. Adult. British Guiana. Presented by Sir Robert Schomburgk.

*h*. In fluid. Adult. Para. Presented by R. Graham, Esq.

Var. 1. Brown; back with a series of large round pale spots; sides brown, with two irregular rather interrupted white streaks.

*i*. In spirits. Young. Cayenne. Presented by H. Cadogan Rothery, Esq.

*j*. Skin, stuffed. Adult. Brazil. Presented by R. Graham, Esq.

† *Head convex and rather compressed in front; head-shield small.*

3. The Brown Aboma. Epicrates maurus.

Uniform brown: lips and beneath yellow: the ninth upper labial shield (the one next to the two under the eye) twice as broad as the others; anterior ocular shield high, forming part of the forehead; front lower labial shield very narrow: orbit with an incomplete ring of scales.

*a*. In spirits. Adult. Venezuela. From Mr. Dyson's collection.

### 7. Xiphosoma.

Head large, covered with scales: nostrils lateral, between two plates of two internasals, and two rows of other symmetrical plates behind them on the ends of the muzzle: rostral nine-sided, inequilateral: eyes lateral; pupil elliptical, erect; orbit with a complete circle of scales: all the lip-shields concave above, with a deep pit on the hinder edge of the upper lip and on most of those of the lower: body short, thick, compressed: scales flat, smooth: tail rather short: subcaudal plates one-rowed.

Xiphosoma, *Gray, Zool. Misc.* 1842. *Fitz. N. Syst.* 54, 1826. *Syst. Rept.* 24, 1843. Xiphosoma, *a*, *Wagler, Syst.* 167. Xiphosoma sp., *Dum. & Bib. Erp. Gen.* vi. 536. *Fitz. N. Class.* 54, 1826.

1. The Bojobi. Xiphosoma caninum, *Fitz. Rept.* 54, 1826. *Wagler, Syst*, 167. *Gray, Zool. Misc.* 42. *Dum. & Bib. Erp. Gen.* vi. 540. X. Araramboya, *Wagler, Spix. Braz.* 45, *t.* 16. Boa canina, *Linn. Mus. Ad.* 39, *t.* 3. *Shaw, Nat. Hist. Zool.* iii. *t.* 96. *Schlegel, P. S.* 388, *t.* 14, *f.* 8, 9. *Guerin, Icon, t.* 19, *f.* 2. B. Hypnale, *Linn. S. N.* i. 373, *a. Seba, Thes.* ii. *t.* 34, *f.* 1, 2. *Lacep. Quad. Ovip.* ii. *t.* 16, *f.* 2. B. exigua, *Laur. Syn.* 89. B. aurantiaca, *Laur. Syn.* 89. *Seba*, ii. *t.* 81, *f.* 1. B. thalassina, *Laur. Seba*, ii. *t.* 96, *f.* 2. B. viridis and B. flavescens, *Bodd. Nov. Act. Leop.* vii. 17. *Scheuch. P. S. t.* 628, *f. E.* Bojobi, *Term. Holl. Equin.* 35. *Lacep. Quad. Ovip.* ii. 378, *t.* 17, *f.* 1.

Green: rostral plate nine-sided, inequilateral; internasal plates two, with two rows of other symmetrical plates behind them: eyes surrounded by a circle of scales.

*a*. In spirits. Adult. Brazils. Old collection.
Boa canina, *Shaw, in B. M.*

*b*. In spirits. Half grown. Brazils.

## 8. Corallus.

Head moderate, covered with scales, with two internasal shields and one series of smaller plates behind them on the end of the muzzle: rostral plate triangular, not pitted; front upper and hinder lower labial shields pitted: nostrils lateral, between two plates: loreal shields 2 or 3: eyes lateral; pupil elliptical, erect; orbit with a complete circle of scales: the hinder upper and lower lip-shield pitted; upper shields two-rowed, the front one slightly pitted: body slender, elongate, compressed: scales flat, smooth; of the back rather broad, rhombic; of sides narrower: tail elongate, slender: subcaudal plates one-rowed, brown and variegated.

Corallus, *Daud. Rept.* v. 259, viii. 385. *Gray, Zool. Misc.* 44, 1842. Caramus, *Rafin. Anal. Nat.* 77, 1815. Xiphosoma, *b, Wagler, Syst.* 167. Xiphosoma sp., *Dum. & Bib. Erp. Gen.* vi. 544. *Fitz. N. Syst.* 54, 1826. Boa sp., *Schneider.*

1. The Cencoatl. Corallus hortulanus, *Gray, Zool. Misc.* 42. Coluber hortulanus, *Linn. Mus. Adolph.* 37. Corallus obtusirostris, *Daud. Rept.* v. 259, *t.* 64, *f.* 3, *t.* 59, *f.* 5, 6; viii. 385. Boa hortulana, *Linn. S. N.* 374. *Lacep. Quad. Ovip.* ii. *t.* 17, *f.* 2. *Schlegel, P. S.* 392, *t.* 14, *f.* 10, 11. B. elegans, *Daud. Rept.* v. 123, *t.* 36, *f.* 1, *t.* 61, *f.* 32, 33. B. Merremi, *Schn. Syst.* ii. 259. *Merrem, Beitr.* ii. *t.* 2. *Tent.* 88. B. Enhydris, *Linn. S. N.* 375. B. modesta, *Reuss. Mus. Senck.* i. 129. Xiphosoma hortulanum, *Dum. & Bib. Erp. Gen.* vi. 545. Vipera bitis, *Laur.* 102. *Daud. R.* vi. 165 = *Seba*, ii. *t.* 16, *f.* 1. B. obtusiceps, *Bechst. Lacep.* v. 46, t. 2, *f.* 2. V. Maderensis, *Laur.* 102. *Daud.* vi. 157 = *Seba*, i. *t.* 54, *f.* 2. V. cærulescens, *Laur.* 101. V. Echidna cærulescens, *Merrem, Tent.* 153. Col. glaucus, *Gmelin, S. N.* i. 1092. Xiphosoma (Merremi), *Wagler, Syst.* 167. X. hortulana, *Fitz. N. S.* 54, 1826. La Broderie, *Lacep. Q. O.* ii. 381. La Parterre, *Bonnat.* Xiphosoma dorsale, *Wagler, Serp. Braz.* 43, *t.* 15. X. ornatum, *Wagler, Braz.* 40, *t.* 14, *f.* 2, young. *Seba, Thes. t.* 50, *f.* 1, *t.* 74 and *t.* 84, *f.* 1. *Scheuch. P. S. t.* 661, *f.* 9.

White (in spirits), red or black varied.

Var. 1. Loreal shields 3-3, last smallest: occiput lined.

*a.* In spirits. Half grown. Red-spotted: superciliary shields 3 or 4, rather larger than those on crown; upper labials 10-10. Demerara. Presented by Dr. Hancock.

*b*. In fluid. Adult. Pale brown varied: three or four superciliary scales larger than the others; upper labials 11-11. Trop. America, British Guiana. Presented by Sir Robert Schomburgk.

*c*. In fluid. Adult. Venezuela. From Mr. Dyson's collection.

Var. 2. Loreal shields 3-3: occiput with two round dark spots: upper labial plates 10-10.

*d*. In spirits. Spot and red scales over the eyes very small, numerous, like those on crown. America, West Indies. Presented by Edward Cooke, Esq.
Corallus Cookii, *Gray, Zool. Misc.* 42.

*e*. In spirits of turpentine. Spot red. West Indies. Presented by W. P. Mauger, Esq.

Var. 3. Loreal shields 4-4, second small; upper labial shields 12-12.

*h*. In spirits. Adult. W. Indies, Berbice. Presented by Lady Essex.
Corallus maculatus, *Gray, Zool. Misc.* 42.

*i*. In spirits. Very young. W. Indies. From the Rev. Lansdown Guilding's collection.
Boa dubia, *Guilding, MSS.*

*j*. In fluid. Adult; bleached. Head in bad state. Grenada. Presented by W. S. Dallas, Esq.

Var. 4. *Melanea*. Black and white varied.

*f*. In fluid. Half grown. Spotted like the other of variety 2, but bluish black where others are red. W. Indies. From Mr. Argent's collection.

*g*. In spirits. Adult. Bluish black, slightly netted with narrow white lines. St. Vincent's. Presented by the Zoological Society.

### 9. Sanzinia.

Head short, covered with scales, with two internasal and some other symmetrical plates on the end of the muzzle: rostral seven-sided, inequilateral: labial shields very thick, triangular, prismatic on each lip: eyes lateral; pupil elliptical, erect; orbit with an incomplete series of scales below: nostrils lateral, between two inequal

plates: body short, fusiform: scales smooth, flat: subcaudal shields one-rowed.

Xiphosoma sp., *Dum. & Bib. Erp. Gen.* vi. 549, 1846.

1. The SANZIN. Sanzinia Madagascariensis. Xiphosoma Madagascariensis, *Dum. & Bib. Erp. Gen.* vi. 549.

Rostral plates seven-sided, inequilateral: yellowish above, reddish beneath, with angular white spots.

Inhab. Madagascar. Mus. Paris.

### 10. CLIFTIA.

Head covered with scales; muzzle shielded, with two internasal, two frontonasal, a prefrontal and two superciliary shields: labial shields broad, lower hinder largest, flat, front upper pitted? loreal shields elongate, with a series of small scales between them and the labial shields: rostral shield flat, not pitted: nostrils lateral, between two shields: eyes lateral; pupil elliptical, erect? circle of scales round the eyes incomplete below, over the larger seventh labial shield: one large anterior and four small posterior oculars: body slender: scales ovate, rather thick, smooth, in many longitudinal series; of the upper part of the tail many grooved: tail rather short, conical: subcaudal plates one-rowed.

This genus may be the same as the *Casarea*, but the scales in the dry specimens are not keeled, and the front upper labial shields appear to be pitted, and the tail is short.

1. The CLIFTIA. Cliftia fusca.

Pale brown, with some obscure darker spots.

*a*. Stuffed. India. From Mr. Cross's collection.

b. *Scales smooth; labial shields smooth, not pitted.*

### 11. BOA.

Head entirely covered with scales, rather larger in front: labial shields flat, not pitted, short, narrow: nostrils lateral, between two plates: eyes lateral, surrounded with small scales; pupil elliptical, erect: body fusiform: scales flat, smooth: subcaudal plates one-rowed.

Boa, *Gray, Ann. Phil.* 1825, 209. *Wagler, Syst.* 167. Cenchris sp., *Linn. S. N. ed.* 7. *Gronov. Mus. Ichthyol.* 69, 1754. Constrictor sp., *Laur. Syn. Rept.* 107, 1768. Boa sp., *Linn. Fitz.* 1826. Boarius, *Rafin. Anal. Nat.* 77, 1815.

* *Scaly circle of the orbit separated from the upper labial plates by one or two series of scales.*

1. The Boiguacu. Boa constrictor, *Linn. Mus. Adolph.* i *t.* 17, *f.* 3. *Schlegel, Phys. Serp.* ii. 373, *t.* 14, *f.* 6, 7. *Gray, Ann. Phil.* 1825, 209. *Zool. Misc.* 41. *Wagler, Syst.* 168. *Dum. & Bib. Erp. Gen.* vi. 507. B. orophryas, *Linn. S. N. ed.* x. 215 = *Scheuch. P. S. t.* 746, *f.* 1. B. constrictrix, *Schn. H. A.* ii. 247. *Seba*, i. *t.* 53, *f.* 1; ii. *t.* 78, *f.* 5, *t.* 99, *f.* 1, *t.* 101. Constrictor formosissimus, C. rex Serpentium and C. auspex, *Laur. Syn.* 107, 108. Le Devin, *Daub. Lacep. Q. O.* ii. *t.* 16.

Tail red at the end: rostral plate feebly nicked at the base and rather narrower than the lip: chin scales triangular, equilateral, rectilinear; scales of the upper part of the muzzle between the nasal plates, 30; the circle round the eye composed of thirty scales, and separated from tne upper labial by two series of scales; one of the phrenal scales near the orbit rather larger than the others, as large as the globe of the eye. Tropical America.

*a.* In spirits. Half grown; bleached. Tropical America. Old collection.
Boa constrictor, *Shaw, Cat. B. M.*

*b.* In fluid. Adult. Para. Presented by John P. George Smith, Esq.

*c.* In fluid. Adult. Tropical America. Purchased of E. Cross.

*d, e.* In spirits. Young. Tobago. Presented by W. I. Alfred Ludlam, Esq.

*f.* In spirits. Young; bleached. Old collection.

*g.* Stuffed. Young. S. America.

*h.* Stuffed. Half grown. S. America.

*i.* Skin. Adult. Brazil. From Dr. Gardener's collection.
Called *Brown Peachili.*

*j.* In spirits. Head of adult. S. America.

** *The scaly circle of the orbit close on the edge of the upper labial plates.*

† *One of the hinder phrenals rather larger than the rest; muzzle obliquely truncated.*

2. The Lamanda. Boa diviniloqua, *Dum. & Bib. Erp. Gen.* vi. 515. B. orophrias, *Linn. Syst. Nat. ed.* x. 215? B. ophrias, *Linn. Syst. Nat. ed.* xii. i. 374? Constrictor diviniloquus, *Laur. Syn.* 108, from *Seba*, ii. *t.* 100, *f.* 1. B. constrictor, *var.* B, *Latr.*

*Rept.* iii. 133. *Daud. Rept.* v. 195. ? B. Divinatrix, *Lacep. Q. O.* ii. 338, *t.* 16, *f.* 1.

Muzzle obliquely truncated; rostral feebly nicked at the base.

Inhab. St. Lucia. Gardens Zool. Soc.

†† *One of the hinder phrenals rather larger than the rest; muzzle truncated.*

3. The Emperor Boa. Boa imperator, *Daud. Rept.* v. 150. *Dum. & Bib. Erp. Gen.* vi. 519. B. constrictor, *β. Merrem, Tent.* 86.

The rostral plate rather narrower and slightly nicked below; the chin shield moderately high, triangular, equal sided, with the two larger sides concave; twenty scales above the muzzle between the nasal shields: orbit completely surrounded by sixteen or seventeen scales; one of the phrenal scales near the orbit rather larger than the rest, but never equal to the size of the globe of the eyes: a brown stripe on each side of the neck.

*a*. In spirits. Young. Mexico? Presented by Edward Cooke, Esq.

*b*. Skin. Young. Honduras. From Mr. Dyson's collection.

††† *One of the hinder phrenals much larger than the rest.*

4. The Chevalier Boa. Boa Eques (Boa Chevalier), *Eydoux and Souleyet, Voy. Bonite, Zool. t.* 4, 1842. *Dum. & Bib. Erp. Gen.* vi. 521.

The rostral plates one-third narrower below than at the tip and strongly nicked; the chin shield triangular, with the longer sides concave; twenty or more scales on the muzzle between the nasal; orbit surrounded by twelve or thirteen scales; one of the phrenal scales near the orbit much larger than the others, and as large as the globe of the eye.

Inhab. Peru. Mus. Paris.

## 12. Pelophilus.

Head covered with scales behind and shielded in front: nostrils lateral, between two plates: eyes lateral; pupil elliptical, erect: lip shields flat, without pits: body thick, compressed: scales flat, smooth: subcaudal shields one-rowed.

Pelophilus, *Dum. & Bib. Erp. Gen.* vi. 523, 1844.

1. The PELOPHILE. Pelophilus Madagascariensis, *Dum. & Bib. Erp. Gen.* 524.

Large black spots round the lower jaw; a square black spot on the upper lip below the eye; a black streak from the back of the eye.

*a*. Stuffed. Madagascar. From M. Parzudaki's collection.
*b*. In spirits. Head of adult. Rostral scales black; spot under the eye oblong on one, and two smaller ones on the other side. New Guinea? Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

## 13. EUNECTES.

Crown covered with scales, and with shields on the front half: labial shields smooth, without pits; front one high and narrow; the hinder lower, two-rowed: nostrils at the tip of the muzzle, each between three plates, one internasal and two nasals: eyes subvertical, with small shields above and behind, and a large ocular in front superciliary plate distinct; pupil oblong, perpendicular: body fusiform: scales flat, smooth: subcaudal plates one-rowed.

Eunectes, *Wagler, Syst.* 167, 1830. *Gray, Zool. Misc.* 41 1842. *Dum. & Bib. Erp. Gen.* vi. 527. Boa, *Laur. Rept.* 88 Boa **, *Merrem, Tent.* 86. Cenchris sp., *Gronov. Mus. Ichth.* 70 1754. Boa sp., *Linn.*

1. The ANACONDO. Eunectes murinus, *Wagler, Syst.* 16: *Gray, Zool. Misc.* 41. *Dum. & Bib. Erp. Gen.* vi. 529. Boa murina, *Linn. S. N.* i. 374 = *Seba*, ii. *t.* 23, *f.* 1, *t.* 29, *f.* 1. *Scheuc P. S. t.* 606, *f.* 1. *Schlegel, Phys. Serp.* ii. 380, *t.* 14, *f.* 1, *Abbild.* 55, *t.* 17, *f.* 8—10. Boa Scytale, *Linn. S. N.* i. 374. Eunectes Scytale, *Fitz. S. R.* 24. B. glauca and B. albida, *Bodd. Act. Cæs. Leop.* vii. 17, B. B. Anacondo, *Daud. Rept.* i. 161, *t.* 6 *f.* 2, very young. B. aquatica, *Neuwied, Abbild. t.* B. gigas, *Lat Rept.* iii. 136. Cenchris, No. 44, *Gronov. Mus.* 70. Le Rativor *Lacep. Q. O.* ii. 383. Serpent Aboma, *Stedm. Voy.* i. 225, *t.* 1 Boa Aboma, *Daud. Rept.* v. 132, *t.* 62, *f.* 2. Amore, *Marg. H Braz.* 242.

Brown, with two series of large black rounded spots, and wit a series of yellow-eyed black rings on each side.

*a*, *b*. Young, from eggs, 2 feet long.
*c*. In spirits. Young. Brazil.
*d*. In spirits. Half grown. Brazil.

*e, f.* In spirits. Very young. Brazil. Presented by Sir James Mc'Grigor.
*g.* In spirits. Half grown. Brazil.
*h.* In spirits. Adult. Tropical America.
*i.* Stuffed. Adult. Tropical America. From Mr. Rich's collection.
*j.* Skeleton of *i.*
*k.* Stuffed. Adult. Tropical America.

### 14. CHILABOTHRUS, *Dum. & Bib.*

Crown scaly, with the two front thirds covered with shields: two internasal, two frontonasal, two prefrontal, two supra-ocular, one frontal, four parietal, one phrenal, two preocular and three or four post-ocular shields: lip shields flat, not pitted: nostrils between three plates, one internasal and two nasal: eyes lateral; pupil elliptical, erect: scales of the body smooth: subcaudal shield one-rowed. Head shield like *Liasis.*

Chilabothrus, *Dum. & Bib. Erp. Gen.* vi. 562, 1844. Cenchris, *P. Browne, Jam.* ii. 461, 1754, not *Daudin.*

Dr. Browne first noticed the spurs of this family: he says the negroes eat this species, and use the fat as a resolutive.

1. The YELLOW SNAKE. Chilabothrus inornatus, *Dum. & Bib. Erp. Gen.* vi. 563. Boa inornata, *Reinh. Beskriv. Slang.* 1843, 21, *t.* 1, *f.* 21, 23. Yellow Snake, Cenchris 1, *P. Browne, Hist. Jam.* 461.

Head and front part of the body olive; temple with a narrow black streak: back with small, scattered, black, oblique cross lines; hinder part of the body black, with olive spots.

*a.* In spirits. Skin. West Indies, Jamaica. From Mr. Gosse's collection.
*b.* In fluid; bad state. Jamaica. Presented by Robt. Heward, Esq.
*c, d.* Stuffed. Adult, Jamaica. Presented by J. Gould, Esq.
*e.* In spirits. Very young; perhaps bleached, much compressed. Pale brown, with only two or three very small black spots and no eye-streak. Jamaica. From Mr. Gosse's collection.

c. *Scales keeled; labial shields not pitted: nostrils between two plates.* America.

### 15. Ungalia.

Head covered with symmetrical plates: labial shields not pitted: nostrils lateral, between two plates: eyes lateral; pupil elliptical, erect: scales convex, appearing keeled: subcaudal plates one-rowed.

Ungalia, *Gray, Zool. Misc.* 43, 1842. Tropidophis, *Dum. & Bib. Erp. Gen.* vi. 488, 1846. Leionotus, *Bibron, in Sagra Hist. Cuba*, 1840 (not described). Erycopsis (subgenus of Ailurophis), *Fitz. Syst. Rept.* 27, 1843 (no character).

1. The Black-tailed Ungalia. Ungalia melanura, *Gray, Zool. Misc.* 46. Boa melanura, *Mus. Paris. Schlegel, Phys. Serp.* 399. *Abbild.* 98, *t.* 26. Tropidophis melanura, *Bibron, Sagra, Cuba, t.* 23. *Erp. Gen.* vi. 491. Boa pardalis, *Gundlach, Wiegm. Arch.* 1840, 359. Ailurophis Erycopsis melanura, *Fitz. Syst. Rept.* 27.

Olive-violet or reddish brown, with angular black spots and scattered small white spots: tail, the hinder third all black: a series of small scales over the labial shields.

Inhab. Cuba. Collection of J. P. George Smith, Esq.

2. The Pardaline Ungalia. Ungalia maculata. Leionotus maculatus, *Bibron, Sagra, Cuba Rept.* 212. *t.* 24, 1840. Tropidophis maculatus, *Dum. & Bib. Erp. Gen.* vi. 494. Boa pardalis, part, *Gundlach, Wiegm. Arch.* 1840, 359.

Gray-brown, fulvous or reddish, with many large round or oval black spots: tail spotted like the body: no small scales over the labial shields.

*a.* In spirits. Cuba. Presented by P. B. Webb, Esq.
*b.* In spirits. Young. Spanish Town, Jamaica.
*c.* In spirits. Very young. Back with four, belly with two, rows of spots on each side. Bluefields, Jamaica. From Mr. Gosse's collection.
"Pardaline Snake, *Gosse*."

d. *Scales keeled; labial plates not pitted: nostrils in a single plate.* Asiatic.

### 16. Enygrus.

Head covered with many sided, subimbricate scales, becoming larger behind; internasal plates rather large: labial shields not pitted: nostrils lateral, in a single plate: eyes lateral; pupil elliptical, erect: scales keeled: subcaudal plates one-rowed: spurs very small, scarcely apparent in the female.

Enygrus, *Wagler, Syst. Amph.* 167, 1830 (description and part of Synonyma). *Dum. & Bib. Erp. Gen.* vi. 479. Candoia, *Gray, Zool. Misc.* 43, 1842. Cenchris sp., *Gray, Griffith, A. K.* ix. 97. Xiphosoma sp., *Fitz. N. Class.* 54. Tropidoboa, *Homb. & Jacq. Voy. au Pole Sud.* 1842. Boa sp., *Schneider.* Vipera sp., *Daud.*

* *Upper edge of the phrenal region angular.*

1. The Candoia. Enygrus carinatus, *Dum. & Bib. Erp. Gen.* vi. 479. Boa carinata, *Schn. Amph.* ii. 261, 1801. *Merrem, Ann. Wetter.* ii. 60, *t.* 9, 1810. *Daud. Rept.* v. 222. *Schlegel, Phys. Serp.* ii. 397, *t.* 14, *f.* 12, 13. *Abbild.* 55, *t.* 17, *f.* 6, 7. *Seba*, ii. *t.* 28, *f.* 63, 4. Candoia carinata, *Gray, Zool. Misc.* 43. 1. Vipera Bitis, *Daud. Rept.* vi. 157. Xiphosoma carinata, *Fitz. N. Class.* 54. Cenchris ocellata, *Gray, Griffith, A. K.* ix. 97. Boa ocellata, *Oppell, MSS. Mus. Paris.* Enygrus (ocellatus), *Wagler, Syst.* 167? E. regius, *Fitz. Syst.* 24.

Scales of the forehead as small as those of the crown; upper edge of the phrenal regions angular: tail with two or three large white spots (no black streak on each side nor along the middle of the belly); ventral shields 167 to 180.

*a, b.* In spirits. "New Guinea" (Amboina?) From the Leyden Museum.

"Boa carinata, *Schlegel.*"

** *Upper edge of phrenal region rounded.*

2. Bibron's Enygrus. Enygrus Bibroni, *Dum. & Bib. Erp. Gen.* vi. 483. Tropidoboa de Bibron, *Homb. & Jacq. Voy. au Pole Sud. Ophid. t.* 1.

Scales of the forehead larger than those of the crown; upper lip of the phrenal region rounded; a black streak on each side of

the belly, and sometimes a third central one; ventral shields 212 or 220.

Inhab. Isle Viti. Mus. Paris.

### 17. Casarea.

Head depressed behind, covered with scales; muzzle shielded, with two internasal, two frontonasal, and prefrontal and supra-ocular plates: nostrils lateral (in the middle of a plate?): eyes lateral; pupil elliptical, vertical: labial shields not pitted: body slender, much compressed: scales keeled: tail elongate, slender: subcaudal plates one-rowed: spur inconspicuous.

Casarea, *Gray, Zool. Misc.* 43, 1842 (not Caseara, as written by *Dum. & Bibron*, vi. 485). Leptoboa, *Dum. & Bib. Erp. Gen.* vi. 485. Centrophis, *Hempr. MSS. Fitz. Syst. Rept.* 24, 1843, no character.

1. The Casarea. Casarea Dussumieri, *Gray, Zool. Misc.* 43, 1842. Boa Dussumieri, *Mus. Paris. Schlegel, Phys. Serp.* 396. *Abbild.* 55, *t.* 17, *f.* 1—5. Leptoboa Dussumieri, *Dum. & Bib. Erp. Gen.* vi. 486. Centrophis Dussumieri, *Fitz. Syst. Rept.* 24.

Reddish gray, beneath yellow; tail black-spotted.

Inhab. Isle Ronde, near Mauritius, *Dussumier.* Mus. Paris; one specimen.

### 18. Bolyeria, *Gray.*

Head covered with symmetrical plates, viz., one pair internasal, one pair frontonasal bent down on the sides, one pair frontal, one pair supra-ocular, one pair parietal, two pre- and four post-oculars: nostrils lateral, in the middle of a plate: eyes anterior, lateral; pupil elliptical, erect: labial plates not pitted: body subcylindrical: scales hexagonal, three-keeled: tail short, broad.

Allied to *Eryx;* habit of *Colubridæ.*

Bolyeria, *Gray, Zool. Misc.* 43, 1842. Platygaster, *Dum. & Bib. Erp. Gen.* vi. 496. Euroleptes, *Fitz. Syst. Rept.* 24, 1843, no character (not *Uroleptis*, as cited by *Dum. & Bibron.* Eryx sp., *Peron. Boie, Isis*, 1827, 513. Tortrix sp., *Schlegel.*

1. The Bolyeria. Bolyeria multicarinata. Eryx multocarinatus, *Peron, MSS. Boie, Isis*, xx. 513. Platygaster multicarinatus, *Dum. & Bib. Erp. Gen.* vi. 497. Euroleptes pseudoeryx, *Fitz. Syst. Rept.* 24, 1843. Tortrix pseudoeryx, *Schlegel, Phys.*

*Serp.* ii. 19. *Abbild.* 112, *t.* 34. Bolyeria pseudoeryx, *Gray, Zool. Misc.* 46, 1842.

Scales of the back six-sided, three-keeled.

New Holland, Port Jackson, *Peron.* Mus. Paris.

II. *Tail very short, not (or only slightly) prehensile. Head very small, indistinct.*

a. *The head covered with scales; intermaxillary teeth and supra-orbital bone wanting: scales convex: subcaudal plates one-rowed: anal spurs distinct, small.* Erycina.

Eryxina, *Gray, Zool. Misc.* 43, 1842. Pythoniens, Aproterodontes, Erycides, *Dum. & Bib. Erp. Gen.* vi. 451. Pythonoïdes pars, *Fitz. N. Class. Rept.* 1826. Constrictores pars, *Oppell, Rept.* 1811. Isodonta pars, *Muller.* Colubrini pars, *Boie, Isis*, xx. 510. Colubriens pars, *Latreille, Fam. Nat.* Gongylophes, *Fitz. Syst. Rept.* 24, 1843.

* *Muzzle rounded in front.*

19. Cusoria.

Head elongate, covered with rather large, imbricate, nearly symmetrical, smooth scales: rostral rather large, broad, low, triangular, flattened beneath: internasal shields 2, rather large, transverse; superciliary shield none: eyes surrounded by a ring of square scales: lores with several scales in two series: nostrils lateral, between three plates, the internasal and two nasals: eyes lateral; pupil ——— ?; body fusiform; tail rather tapering: scales of the head and body ovate, rather convex, smooth; lower series rather larger: ventral and subcaudal plates narrow.

1. The Cusoria. Cusoria elegans.

Pale brown in spirits: back with two series of large more or less confluent brown spots; sides with two series of small brown spots; belly brown-marbled.

*a.* In spirits. Adult. Affghanistan. Presented by the Hon. East India Company.

** *Muzzle shelving, rather produced beneath.*

20. GONGYLOPHIS.

Head covered with small keeled scales: muzzle covered with shields; frontal one pair, moderate: nose truncated or cut square: rostral wedge-shaped: jaws equally long: throat-fold none: nostrils lateral, triangular, linear, between three plates, one internasal and two nasals: eyes lateral; pupil elliptical, erect: body fusiform: tail conical, with a conical scale at the tip: scales of the back and tail keeled, convex.

Gongylophis, *Wagler, Syst. Amph.* 192, 1830. *Gray, Zool. Misc.* 43, 1842. Boa sp., *Schneider, Schlegel.* Eryx sp., *Guerin, Iconog. Dum. & Bib.* Tortrix sp., *Schlegel.* Scytale sp., *Guerin, Iconog.*

1. The PADAIN COOTOO. Gongylophis conica, *Gray, Zool. Misc.* 45. Boa conica, *Schn. Amph.* ii. 268. *Denkschr. Munich,* vii. 119, *t.* 6, *f.* 2. *Schlegel, Phys. Serp.* ii. 399. Eryx conicus, *Dum. & Bib. Erp. Gen.* vi. 470. B. ornata, *Daud. Rept.* v. 210. B. viperina, *Shaw, Zool.* iii. 355, *t.* 100. Padain Cootoo, *Russell, Ind. Serp.* i. 5, *t.* 4. Vipera orientalis, *Seba, Thes.* ii. 82, *t.* 78, *f.* 1, 78, *f.* 4. *Daud. Rept.* vi. 50? Eryx Bengalensis, *Guerin, Icon. Rept. t.* 20, *f.* 1. Scytale coronata, *Guerin, Icon. Rept. t.* 20, *f.* 2. Tortrix Eryx, *var, Schlegel, Phys. Serp.* 17.

Pale brown; back with dark confluent, lozenge-shaped cross-bands; sides brown-varied.

*a.* In spirits. Young. India. Presented by Dr. P. Russell. Padain Cootoo, *Russell, Ind. Serp. t.* 4.
*b, c.* In spirits. Young. India. Purchased.
*d.* In spirits. Adult. India.
*e.* Stuffed. Adult. India.
*f, g.* In spirits. Half grown. India, Madras. Presented by J. E. Boileau, Esq.
*h.* In spirits. Half grown. India. Presented by the Royal College of Surgeons.
*i.* In spirits. Very young. India.
*j.* In spirits. Adult. Scales of the back convex, rather smooth. India, Madras. Presented by J. C. Jerdon Esq.
*k.* Skin of adult, in spirits. Madras. Presented by Walter Elliott, Esq.

## 21. Eryx.

Head covered with small, keeled scales, rather shielded in front; nose shelving; upper jaw rather longest: nostrils lateral, triangular, linear, between three plates, one internasal and two nasals: eyes lateral; pupil erect, oblong: body fusiform: tail conical: scales of the back smooth; of the hinder part of the body and tail keeled.

Eryx, *Gray, Ann. Phil.* 1825, 210. *Zool. Misc.* 1842. *Wagler, Syst. Amph.* Erix, *Cuvier, R. A.* Eryx sp., *Daud. Dum. & Bib. Erp. Gen.* vi. 454. Pseudoboa sp., *Schneider.*

### * *Gular groove distinct; frontal 2 pairs.*

1. The Eryx. Eryx Jaculus, *Daud. Gray, Zool. Misc.* 45. *Dum. & Bib. Erp. Gen.* vi. 463. Tortrix Eryx, *Schlegel, Phys. Serp.* ii. 14, *t.* 1, *f.* 11—13. Anguis Jaculus and A. colubrina, *Hasselq. Linn. S. N.* ii. 390. Anguis cerastes, *Hasselq. Voy. App. n.* 67 (distorted). *Linn. S. N.* ii. 392. Eryx delta, *Geoff. Rept. Egypt, t.* 6, *f.* 2. E. familiaris, *Eversm. Zool. Spec.* 176. Boa turcica, *Olivier, Voy.* i. 329, *t.* 16, *f.* 2. *Daud. Rept.* vii. 267, *t.* 85, *f.* 2, 3. *t.* 61, *f.* 34, 35. Eryx turcicus, *Gray, Ann. Phil.* x. 210. *Fitz. N. Syst. Rept.* 54. Scytale, *Aldrov. Serp.* 233, *fig.* Amphisbæna Grevini, *Ald. Serp.* 239, *fig.* Boa tatarica, *Lich. Verz.* 104.

Tail subconic, very blunt at the end, and covered with a large hemispherical scale; gular groove distinct; scales moderate, hexangular, rather longer than broad; vertebral plate small, distinct; one series of scales under the eye.

*a.* In spirits. Adult. Egypt. Presented by Sir J. Gardener Wilkinson.
*b.* In spirits. Adult. Corfu. Presented by Dr. Benga.
*c.* In spirits. Half grown. Shores of Mediterranean. Presented by Dr. J. Miller, R.N.
*d, e.* In fluid. Half grown. Xanthus. Presented by Sir Charles Fellowes.
*f.* In spirits. Naxos, Greece. Presented by Capt. J. Ince, R.N.
*g.* In spirits. Young. From Dr. Heckel's collection.
Eryx Turcicus, *Heckel.*
*h—k.* In spirits. Adult and young. Xanthus. Presented by Sir Charles Fellowes.

### ** *No gular groove; frontals 1 pair.*

2. The Shielded Eryx. Eryx Thebaicus, *Reuss. Mus. Senk.* i. 134. *Dum. & Bib. Erp. Gen.* vi. 468. Eryx scutata, *Gray, Zool.*

*Misc.* 45. Eryx de la Thebaide, *Geoff. Rept. Egypt*, i. 140, *t.* 6, *f.* 1 (not accurate).

Internasals one pair; scales behind the nasal plate small, granular, like those of the crown; throat without any fold; tail conical, tip covered with a conical scale; vertebral shield none; two series of scales under the eyes.

*a.* In spirits. Adult. N. Africa, Egypt. Presented by Sir J. G. Wilkinson.

## 22. Clothonia.

Head covered with small, symmetrical, smooth scales: muzzle shielded, with one pair internasals and one pair frontonasals: nose wedge-shaped: rostral wedge-shaped, very broad, subtriangular: upper jaw rather the longest: throat with a distinct fold: body subcylindrical: scales small; of the middle of the back convex; of the sides flat, smooth; two lower series the largest: tail triangular, scarcely tapering, and tip covered with a large three-sided scale.

Clothonia, *Daud. Rept.* vii. 285. *Gray, Ann. Phil.* x. 1825, 210. *Zool. Misc.* 43, 1842. Boa sp., *Russell, Ind. Serp.* Eryx sp., *Merrem, Tent.* 85. *Boie. Dum. & Bib.*

1. The Clothonia. Clothonia Johnii, *Gray. Zool. Misc.* 45. Boa Johnii, *Russell, Ind. Serp.* ii. *t.* 26, adult; 17, young. Eryx Johnii, *Dum. & Bib. Erp. Gen.* vi. 458. Boa anguiformis, *Schn. Amph.* ii. 269. Clothonia anguiformis, *Daud. Rept.* vii. 283. *Gray, Ann. Phil.* x. 210. Eryx anguiformis, *Merrem, Tent.* 85. Tortrix Eryx, adult, *Schlegel, Phys. Serp.* ii. 18, 11. Amphisbæna, *Penny Encyc. fig.*

Reddish brown; one series of scales between eyes and labial shields: young bright coloured (*Russell, Ind. Serp. t.* 17).

*a.* In spirits. Adult. India. Purchased.

*b.* In spirits. Adult. Tail injured and rounded. India. Presented by General Hardwicke.

*c.* In spirits. Skin of adult. Madras. Presented by J. C. Jerdon, Esq.

*d.* In spirits. Very young (discoloured dark brown). Presented by the Royal College of Surgeons.

*e.* In fluid. Half grown. Madras. Presented by J. C. Jerdon, Esq.

b. *Head shielded, small, cylindrical, like body; muzzle depressed, rounded: no hinder frontal bone; no intermaxillary teeth: nostrils in the middle of a shield: eyes between shields, without any plate on each side; pupil round: tail very short, cylindrical, not prehensile: anal spur very small, hidden.* Cylindrophina.

Anguiformes pars, *Oppell, Rept.* 1811. Cylindryines pars, *Latreille, Fam. Nat.* 100. Elysioidea pars, *Fitz. N. Class. Rept.* 26. Imbricatæ pars, *Boie, Isis*, xx. 310, 1827. Tortricina pars, *Muller.* Cylindrophes pars, *Fitz. Syst. Rept.* 24, 1843. Tortricides pars, *Dum. & Bib. Erp. Gen.* vi. 581.

### 23. Cylindrophis.

Tail compressed: nasal plates large; frontal plates moderate: eyes surrounded by the labial, superciliary and temporal plates, and sometimes by a small posterior ocular plate. India.

Cylindrophis, *Wagler, Syst. Amph.* Elysia, *Hemprich. Licht. Doubl.* 104. *Fitz. N. Class. Rept.* 54. Anilius, *Oken.* Scytale sp., *Merrem.*

* *Tail triangular, truncated.*

1. The Black-backed Pamboo. Cylindrophis melanota, *Wagler, Syst. Amph.* 195, 1830. *Icon. t.* 27. *Dum. & Bib. Erp. Gen.* vi. 592. Tortrix melanota, *Boie, MSS. Isis*, 1827. *Reinw. Mus. Leyden.* Tortrix rufa, *var.* Celebensis, *Schlegel, Phys. Serp.* iii. *t.* 33, *f.* 11—17. *Abbild. t.* 33, *f.* 11—17. Cylindrophis rufa, var. 1, *Gray, Zool. Misc.* 43.

Black muzzle; end of tail white; belly black and white banded; tail longer than the head, slightly flattened on the three sides, truncated at the tip.

*a.* In spirits. Celebes. From the Leyden Museum.

** *Tail conical; muzzle broad.*

2. The Sohilaj Pamboo. Cylindrophis rufa, *Gray, Zool. Misc.* 43. *Dum. & Bib. Erp. Gen.* vi. 595. Tortrix rufa, *Schlegel, Phys. Serp.* ii. 9, *t.* 1, *f.* 1, 2. *Abbild.* iii. 33, *f.* 5—10. *Russell, Ind. Serp.* ii. 62, *t.* 27, *t.* 28, *f.* 1. *Seba, Thes.* ii. *t.* 25, *f.* 1. *t.* 7, *f.* 3, *t.* 20, *f.* 3. *Scheuch. P. S. t.* 629, *t.* 647, *f.* 1, *t.* 748, *f.* 6. Anguis rubra, *Laur. Syn.* 71. A. rufa, *Schn. Amph.* A. Scytale,

*Russell, Ind. Serp.* ii. *t.* 27, 28, *f.* 1. Scytale Scheuchzeri, *Merrem, Tent.* 91, on *Scheuch. P. S. t.* 647, *f.* 1. Eryx rufa, *Daud. Rept.* vii. 263. Ilysia rufa, *Lichtenst. Verz. Doub.* 104. *Fitz. N. Class.* 54. Cylindrophis resplendens, *Wagler, Syst.* 194. *Icon. t.* 5, *f.* 4. Anguis rufus, *Gmelin, S. N.* 1123. A. striatus, *Gmelin, S. N.* 1119. A. corallina, *Shaw, Zool.* iii. 582, *t.* 131.

Tail conical, shorter than the head: black or reddish, often white-ringed; head and tip of tail black; a white spot on each frontonasal plate.

*a*—*c*. In spirits. Adult and half grown. Penang. Presented by General Hardwicke.

Var. 1. *Javanica.* Black, red rings far apart; head with two red spots. *Schlegel, Abbild. t.* 33, *f.* 5, 10.

*d*. In spirits. Adult. Borneo. Presented by Sir James Brooke.

Var. 2. Black; rings above distant, beneath very close.

*e*. In spirits. Young. Batavia?

*f*. In spirits. Black; sides slightly white banded; beneath black and white banded; nose and tip of tail black. Celebes. From the Leyden Museum.
Tortrix Celebensis, *Mus. Leyden.*

**** Tail conical; muzzle narrow.*

3. The Miguel. Cylindrophis maculata, *Wagler, Syst.* 195. *Gray, Zool. Misc.* 46. *Dum. & Bib. Erp. Gen.* vi. 597. Tortrix maculata, *Schlegel, Phys. Serp.* ii. 12, *t.* 1, *f.* 6, 7. *Russell, Ind. Serp.* ii. *t.* 29. *Guerin, Iconog. t.* 19, *f.* 1. *Scheuchz. P. S. t.* 660, *f.* 3, 656, B. Anguis tesselata, A. decussata, *Laur.* 72, from *Seba, Thes.* i. *t.* 53, *f.* 7; ii. *t.* 100, *f.* 2. A. maculatus, *Schneid. Amph.* ii. 328. *Daud. Rept.* vii. 319. A. maculata, *Linn. Mus. Adolph. t.* 21, *f.* 3. *Syst. Nat.* i. 391. Anguis, No. 5, *Gronov. Mus. Ichth.* 53. Tortrix maculatus, *Oppell, Ord. Rept.* 56. Le Miguel, *Daub.* Ilysia maculata, *Licht. Doub.* 104. *Fitz. N. Class. Rept.* 54.

Red or brown, black netted; beneath whitish: tail conical, shorter than the head.

*a*, *b*. In spirits. Adult; rather discoloured. India. Presented by Dr. Patrick Russell.

*c*. In spirits. Adult. Ceylon. Presented by Sir Joseph Banks, Bart., P.R.S., &c.

*d*. In spirits. Ceylon. Presented by R. Templeton, Esq.

c. *Head shielded, small; muzzle rather depressed: nostrils between two shields: eyes surrounded by small plates: tail very short: anal spurs small, hidden.* Charinina.

### 24. Charina.

Head short; crown flat; sides shelving; muzzle blunt, rounded: frontals 4, transverse, band-like, hinder rather larger; vertebral very large; occipital very small, oblique; two loreal, three anterior larger and three posterior smaller oculars; superciliary 3-3, small; rostral large, convex: nostrils lateral, very small, between two nasal scales, the upper band-like, transverse, like a frontal, margining the rostral: eyes moderate, surrounded by small scales: throat with small scales; shield small, with a distinct longitudinal gular fold: two front upper labial shields large; rest smaller, lower: front lower labial high, slender; hinder lower: body elongate, cylindrical: scales smooth, rhombic, imbricate, lower series largest: ventral shields narrow, transverse: tail short, blunt at the end: subcaudal plates narrow, six-sided, simple.

Tortrix sp., *Blainville l. c.* Not noticed by *Dumeril & Bibron.*

1. The Charina. Charina Bottæ. Tortrix Bottæ, *Blainv. N. Ann. Mus.* 1835, *t.* 26, *f.* 1.

Body elongate, cylindrical, blunt at each end, pale yellow; back and tail darker; one series of scales between eyes and labial shields.

*a.* In spirits. California. From Mr. Douglas's collection. Presented by the Zoological Society.

d. *Head shielded, small, cylindrical like the body; muzzle depressed, rounded: nostrils between two plates: no hinder frontal bone: intermaxillary teeth distinct: eyes in the middle of a plate: tail very short, cylindrical, not prehensile: anal spurs very small, hidden.* Tortricina.

Anguiformes pars, *Oppell, Rept.* 1811. Cylindriques pars, *Latreille, Fam. Nat.* 100. Ilysioidea pars, *Fitz. N. Class. Rept.* 26. Tortricina pars, *Muller.* Tortricides pars, *Dum. & Bib. Erp. Gen.* vi. 581. Imbricatæ pars, *Boie, Isis*, xx. 510, 1827. Cylindrophes pars, *Fitz. Syst. Rept.* 24, 1843.

### 25. Tortrix.

Head shields 7, normal; no internasal nor post-ocular: nostrils subvertical, in a single shield with a slit above: eyes subverti-

cal; pupil round, covered with a plate, which is transparent in the centre: scales smooth: subcaudal plates one-rowed: anal spurs very small, sunk in small pits. Viviparous.

Tortrix, *Oppell. Dum. & Bib. Erp. Gen.* vi. 584. Ilysia, *Hemprich. Wagler, Syst. Amph. Gray, Zool. Misc.* 1842. *Fitz. N. Class.* 54. *Syst.* 24. Anilius, *Oken.* Torquatrix sp., *Haworth.* Torquatrix, *Gray, Ann. Phil.* 1825, x. 209. Anguis sp., *Linn.*

1. The Coral Snake. Tortrix Scytale, *Oppell, Ord. Rept.* 56. *Schlegel, Phys. Serp.* ii. 5, *t.* 1, *f.* 4, 5. *Abbild.* 110, *t.* 33, *f.* 14. *Wagler, Icon. t.* 5, *f.* 2. *Dum. & Bib. Erp. Gen.* vi. 585. Anguis Scytale, *Linn. Mus. Ad. Fred. t.* 6, *f.* 2, adult. *Laur. Syn.* 70. *Merian, t.* 69 (*t.* 31, *f.* 2). *Scheuch. P. S. t.* 628, B, *and t.* 678, *f.* 2. *Seba, Thes.* ii. *t.* 73, *f.* 2, 3, *t.* 30, *f.* 2; i. *t.* 84, *f.* 1. A. corallina, A. atra, A. cærulea, *Laur.* 71. A. annulata, *Laur. Syn.* 69. *Merrem, Tent.* 82. A. fasciata, *Laur. Syn.* 70. *Daud. Rept.* vii. *t.* 87, *f.* 1. Le Rouleau et Le Rouge, *Lacep. Quad. Ovip.* ii. *t.* 19, *f.* 2. A. rostratus, *Weigel, Berl. Gesellsch.* iii. 190. Amphisbæna fuliginosa, *Knorr. Delic. Phys.* ii. 136, *t.* 60, *n.* 1. Anguis corallinus, *Schneid. Amph.* ii. 331. *Daud. Rept.* vii. 298. A. ater, *Shaw, Zool.* iii. 583, *t.* 132. Anguis fasciatus, *Daud. Rept.* vii. 306. Tortrix corallinus, *Oppell, Ord. Rept.* 56. Ilysia Scytale, *Hemp. Handb. Lichst. Verz. Doub.* 104. *Fitz. N. Class. Rept.* 54. Torquatrix, *Haworth, Phil. Mag.* 372, 1825. Torquatrix Scytale, *Gray, Ann. Phil.* 1825, x. 209.

*a.* In spirits. Adult. Demerara. Presented by R. Latham, Esq. Scytale corallina, *Leach, MSS.* 1816.

*b.* In spirits. Adult. Demerara. Presented by Hancock, M.D.

*c.* In spirits. Nearly adult. Berbice. Presented by Lady Essex.

*d.* In spirits. Nearly adult. Demerara. Presented by Lieut. Friend, R.N.

*e.* In spirits. Adult; discoloured. Tropical America. Presented by the Royal College of Surgeons.

Var. 1. Black rings closer.

*f.* In spirits. Adult; discoloured. Tropical America. Presented by the Royal College of Surgeons.
"Anguis Scytale, *Linn.*"

# ADDITIONS.

Page 4. CRASPEDOCEPHALUS, *add as synonym*

Trigalus sp., *Rafin. Anal. Nat.* 77, 1815.

Page 9, *add*

TRIMESURUS? erythrurus. "Trigonocephalus erythrurus, *Cantor, Proc. Zool. Soc.* 1839, 31.

"Bright green above, with ovate, keeled, slightly imbricate scales; the tail cinnamon-red, with smooth imbricate scales; the abdominal surface greenish yellow, enclosed on the sides by a black serrated line.

"Inhab. the Delta of the Ganges." *Cantor.*

TRIMESURUS? mucrosquamatus. "Trigonocephalus mucrosquamatus, *Cantor, Proc. Zool. Soc.* 1839, 32.

"Above brownish gray, with black-edged rings; scales oval, half keeled, imbricate; beneath whitish, black-dotted, 219+91.

"Inhab. Naja Hills, Assam." *Cantor.*

I have not been able to see either of these species.

Page 10. TRIMESURUS strigatus, *add*

*a*, *b*. In fluid. Madras. Presented by J. C. Jerdon, Esq.

Page 12. ATROPOS, *add*

? Atropos, *Rafin. Anal. Nat.* 77, 1815.

Page 14. TRIGONOCEPHALUS Halys, *add*

*Bonaparte, Mem. Acad. Turin*, ii. 1839, 35. T. carayanus, *Eichwald, Z. S.*

Page 15. TRIGONOCEPHALUS Hypnale, *add*

*b*. In fluid. Ceylon. Presented by A. Paul, Esq.

Page 15. CENCHRIS, *add*

Tip of tail with several rows of scales beneath.

Page 19. CROTALUS, *add*

Crotalinus sp., *Rafin. Anal. Nat.* 77, 1815.

Page 19. UROPSOPHUS durissus, *add*

Lower edge of temporal streak covering the upper half of the hinder upper labial shields, and forming a large spot at the under part of the angle of the mouth.

2. The SPOTTED RATTLE-SNAKE. Uropsophus triseriatus, *Wagler, Amph.* 166. *Gray, Zool. Misc.* 51. Crotalus triseriatus, *Wiegmann, Mus. Berl.*

Pale brown; temple with a dark streak from the back edge of the eye, the lower edge of the streak just edging the top of the hinder upper labial shields, and not continued under the angle of the mouth; crown of head and middle of occiput dark brown; back with a central series of pale-edged oblong or rhombic spots, and sides with a series of irregular dark marks; belly pale, darker clouded on the sides.

*a*, *b*. In fluid. N. America (West Coast?) Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

*c*. In fluid. Young and egg. N. America (West Coast?) Presented by Capt. Sir Edward Belcher, K.C.B., R.N.

Colour somewhat like *Crotalus horridus*, but easily known by the larger size of the labial shield and temporal scales. The references to *Wiegmann* and *Wagler* should be erased from the synonyma of the former species; having been induced, until I received these specimens, to place reliance on M. Schlegel's declaration, that the Mexican specimens did not differ from the common species. See *Phys. Serp.* ii. 366.

Page 23. In table of genera, after SEPEDON, *add*

7*. CAUSUS. Scales of sides smooth, of back slightly keeled; eyes surrounded by small scales.

Page 24, *add*

4. The EUPHRATIC KATUKA. Daboia Euphratica. Vipera Euphratica, *Martin, Proc. Zool. Soc.* 1838, 83.

Brownish gray, minutely black freckled; dots forming obscure bands or markings; beneath pale yellow, obscurely mottled; scales

of the body large, flat, elongated, rounded at the end; an elongated plate between the nasal and rostral plates.

Inhab. Shores of Euphrates, *Martin.* Mus Zool. Soc.?

I have not been able to find it in the collection: it may be the same as *D. Xanthina.*

Page 27, *add*

1. The PERUVIAN ADDER. Clotho? ocellata. Echidna ocellata, *Tschudi, Rept. Consp.* 166.

Brown, with two longitudinal series of pale centred black spots; beneath ash-brown; shields 139+22. Length 10 inches.

Inhab. Peru, *Tschudi.*

This is the only species of *Viperidæ* found in the Western World. I do not know to which genus it properly belongs, as I have not seen it.

Page 27. CERASTES, *add*

Cerastes sp., *Rafin. Anal. Nat.* 77, 1815.

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